

New

COSMOLOGY

NEWSLINK

SPRING 1988

International Magazine of the Cosmos

No: 40

DANGER IN THE SKY
See page 9.

UFO's IN THE NEWS
See Page 12

INVESTIGATION

INTO

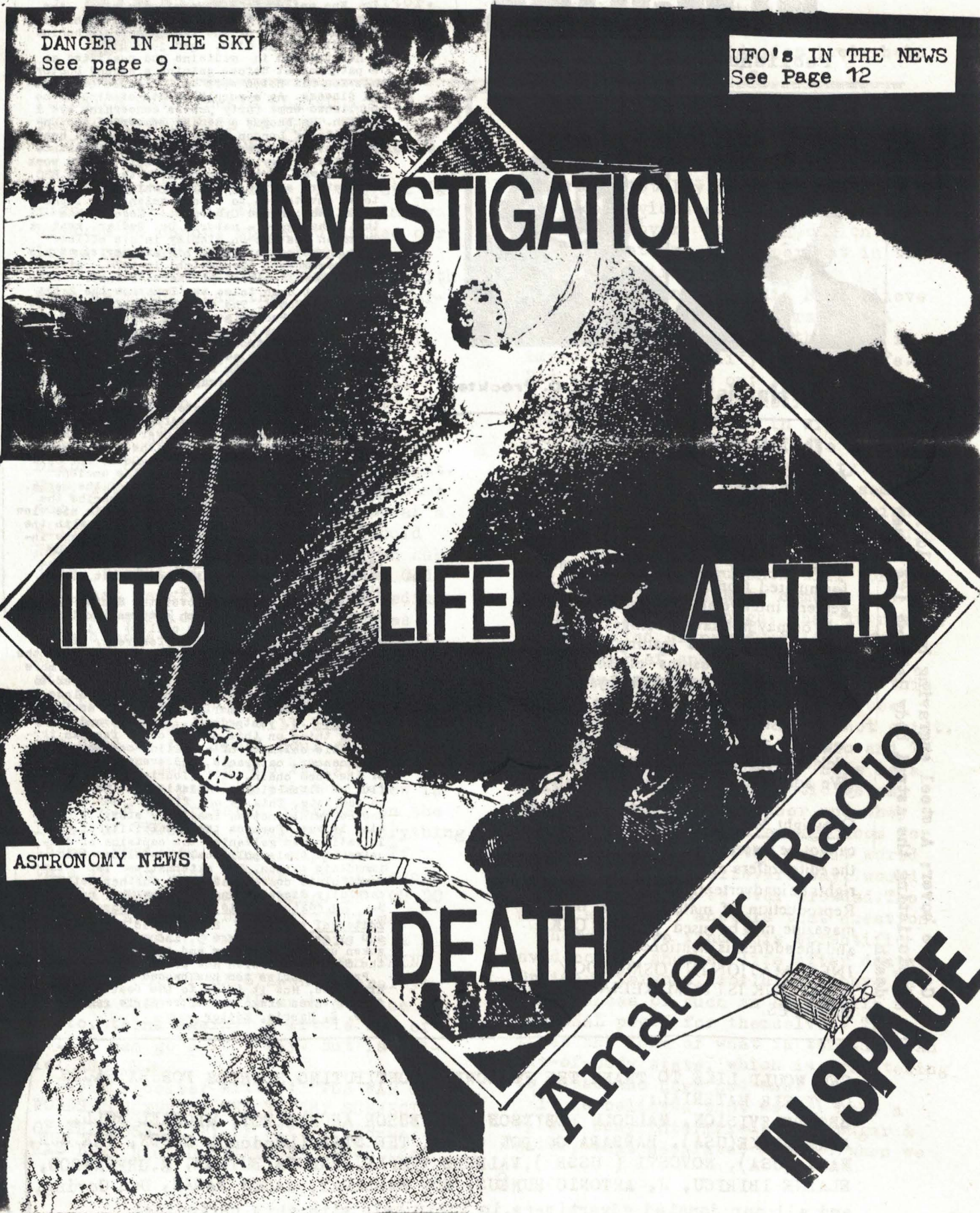
LIFE

AFTER

ASTRONOMY NEWS

DEATH

**Amateur Radio
IN SPACE**



New

COSMOLOGY NEWSLINK

Published since 1972



Editor: E. Harris

Co-editor D. Prockter.

INTRODUCTION

Cosmology is the science of the Universe as a whole; a treatise on the structure and parts of the system of creation. The title COSMOLOGY NEWSLINK, was formulated from the need to fit together inter-related subjects which may or may not have bearings on each other and perhaps leading to the answers or conclusions of some of them - if not all of earth's mysteries in which case this magazine has accomplished its function. Most of our title was suggested by Mr. Patrick Dincen, of Co. Kerry Ireland, We added the LINK.

Copyright. Where an article or photo cannot be traced to the original source the editor offers apologies should any rights be inadvertently infringed. Reproduction of material from this magazine may be used provided CNK and the address is mentioned.

INFORMATION IN COSMOLOGY NEWSLINK IS FROM RELIABLE SOURCES.

EDITORIAL

The name Christopher Magnus Howerd Pedlar might not mean much to you at first glance. You may be a little more familiar, however, with the name he grew into - Dr. Kit Pedlar. You may say that doesn't ring a bell. He was the creator of the 'Cybermen' the only Dr. Who antagonists to seriously rival the appeal of Terry Nation's Daleks. But that is only a fraction of the legacy he left behind in 1981 when he died, aged just 53.

He trained in medicine and qualified as a pathologist before gaining a second Doctorate for his noted work on the cause of retinal disease. As a result of his studies, he published some forty papers concerning eye & vision. He became a senior member of the University of London, where he worked and headed electron Microscopy Unit of the Institute of Ophthalmology. It was the result of his work that he was invited to contribute to the BBC documentary series 'Horizon' which in turn led to an invitation to submit scientific ideas to Dr. Who; hence Cybermen. Legend has it that the good-natured Dr. Pedlar kept a Cyberman costume on display in his office.

He moved on to create his own series - the much remembered 'Doomwatch' in 1970, giving Robert Powell his first taste of fame. Few can forget such tales as 'Tomorrow the Rat' & 'Survival Code'. The series forcefully demonstrated Dr. Pedlar's growing concern with the way we squander our natural resources, together with a strong apprehension with the direction science seems to be taking. The spread of pollution looming large over the proceedings hand in hand with corruption and crass stupidity.

Moving on, he would later write radio plays, novels, and copious scientific articles, plus the Thames TV series 'Mind Over Matter' subtitled: 'A Scientists View Of the Paranormal.'

His last great work was 'The Quest For Gaia' titled after the name given by the ancient Greeks to one of their goddesses of the Earth. Pedlar used this information to describe the ecology-system of our planet, which in his view could be likened to a living organism with the awareness and ability to repair any damage inflicted upon it. It was his belief that our careless industrial society is poisoning the Earth, instead of co-existing with it. It is still happening, every day.

What is now happening over the South Pole & North Pole is just as much a threat to life as any of the scenarios we chilled to in 'Doomwatch' only this time it is for real. Life is imitating art. A calamity looms just around the corner but on this occasion, it will take more than a clever script to rescue us. I refer to the detected hole in the Ozone layer, close to the size of North America and unless action is taken NOW ... yesterday ... Mankind and every living thing on this planet could face an irreversible calamity of appalling consequences. Skin cancer, cataracts, and eventual collapse of the food chain, will flourish under the influx of ultra-violet radiation. It may already be too late. This is not fiction, not a dream, and certainly not an imaginary story. I only wish it was. Perhaps the possibility of annihilation can galvanise the captains of industry and their political bed-fellows into immediate action. The alternative is too dreadful to contemplate. For further details carefully digest 'Danger In The Sky' on page 9. Co-Editor- David Prockter, February 1988

Editorial addition: Since David's Editorial and my article on page 9, industry has indeed woken up to the danger and is now protecting the ozone layer with new products.

Prince Charles too has banned aerosols in his house. Now it is up to the rest of us to follow these examples before it is really too late. E. Harris, Editor

Centre cover: A steel engraving by Corbould in 1829 depicting the astral body leaving its owner on death.

CNK WOULD LIKE TO THANK THE FOLLOWING CONTRIBUTING SOURCES FOR EXTRACTS OF THEIR MATERIAL:

BBC TELEVISION, MALCOLM ROBINSON, PROFESSOR ARCHIE ROY, MICHAEL ROLL, ADAM BLAKE(USA), BARBARA GORDON (USA), THE STAR (London), CUFON, THE SUN, NASA (USA), NOVOSTI (USSR), VALERIE TEMPLE, BRENDA BUTLER, S.GREENWOOD, ELAINE IBIRICU, J, ANTONIO HUNEUS, RON HALLIDAY, JASON FAGAN, Dan Goring, and all our donated advertisers, in their help with this periodical

BEYOND THE GRAVE

A Gate Opens

Compiled by the
Editor.

AN INVESTIGATION

PSYCHICS HAVE ALWAYS PLAYED A PART IN TRYING TO CONVINCE US THAT THERE IS A WORLD BEYOND THIS ONE THAT WE ALL GO TO WHEN WE DIE.

But that doesn't help or comfort us much in believing that! It is simply because we cannot speak to or see our loved ones any more, and they to us. And because we cannot communicate with them we think that they are dead forever, to THIS world.

Some people just DO NOT believe in another existence after this one, in fact neither did scientists, until recently, when they got busy with the atomic accelerators. These non-believers say: "When you're dead - you're DEAD!" Of course they could be right. Many religious doctrines say the same too. One such group are the Jehovah's Witnesses, who argue that we should NOT be dabbling in this forbidden subject, because it is forbidden by God, and what we are receiving from mediums are not our loved ones, but voices from demons pretending to be them. In another case I encountered a young lady stated quite firmly that her father who had just died was 'asleep'. The Witnesses say Jesus will bring back the dead in the final hour of judgement. Well that is the religious point of view. The psychic point of view is that this other world operates on the level of THOUGHT. Thought is everything there. What you think, happens. If this is the case, those non-believers should beware of one thing. IF YOU DO NOT BELIEVE, and BELIEF itself may help, then when you die, there is a possibility that you could even THINK yourself OUT OF EXISTENCE-literally! Just in case there IS such a place to go to, think again. A little bit of belief can go a long way. But is belief ENOUGH.

David Prockter writes: "The WAR OF WORDS CONCERNING THE TOUCHY SUBJECT OF THE POSSIBILITY OF LIFE-AFTER-DEATH HAS BEEN RAGING SEEMINGLY SINCE THE

DO WE LIVE AFTER WE DIE AND GO TO ANOTHER PLACE?

Many years ago, the answer would have been no. But now scientists have found out some amazing facts not apparent until now. In this issue we take an in depth look at this subject which has perplexed Mankind for centuries.

CNK thanks all of our voluntary staff, countrywide, for their help with this article.

ADVENT OF RECORDED TIME. Like the questions raised during UFO research, which it occasionally resembles, it would seem that the 'faith' of 'believers' is totally independent of physical evidence. Why do many people the world over, whose education ought to know better, still persist in the belief in life after death?

Perhaps if mankind did NOT believe in such intangible diversions, a better effort may be forthcoming in improving the quality of this life. But still it goes on; further than any quaint Victorian medium ever imagined, with no end in sight. Mr. Archie Roy, Professor of the Dept. of Astronomy at the University of Glasgow, believes he may have some of the answers. He may even be right! But if Harry Houdini could not return from the...er...'Other Side' who can?

I expect the arguments will continue for many decades to come."

Belief is not enough. What is needed is some kind of proof of life after death. Belief and science are sometimes inter-mixed. To understand this let me say that what we cannot see or hear, does not mean it cannot exist. You cannot see or hear a radio and TV wave, yet they ARE there. There is a multitude of electromagnetic waves passing through each other and they never collide, and is enough room for all of them. Should the spirit world exist, then non-believers say, would not such a place be over crowded. The above statement answers that question.

Where can we find this scientific evidence of another life after death? Ordinary persons, world wide have had experiences of such an after life as PERSONAL proof for themselves. This takes the form of what is termed as an out-of-body state, which is frightening to those who have had one.

It is believed that we all have a spirit body intermixed, like sugar & water, that separates from us when we

die or have a bad life or death experience. We will see about this soon.

There have been more books written about life after death, than those on unidentified flying objects. From these we read that maybe when it is our turn to depart this world a separation happens. Some people think that it is the mind at work which refuses to believe it is 'all over' and somehow spings free of the dead body and goes off on its own. Sometimes this occurs when all is alright for no reason at all. It can happen when you are asleep. Those who wake up in the morning tell of being in another place or met dead relatives and they say it is so realistic that it is definitely NOT a dream. Dreams can be forgotten, but out-of-body happenings are planted vividly in the mind for the rest of that person's life. Yet when we are asleep we remember nothing at all till we wake, in effect we are 'dead'. Psychics tell us we all leave our bodies while asleep, but remember nothing of it.

Until it happens to you, or to a close friend or relative, it is hard to believe. One such person was Mr. John Harris, of Takeley, Essex, who for no apparent reason found himself outside his window looking at the flowers, some years ago. Another person was Mrs. Valerie Temple who lives near Thaxsted, Essex.

CNK PHOTO



Mrs. Valerie Temple. Out-of-body experience in the dentists.

Mrs. Temple told us that she was sitting in the dentist's chair drumming her fingers on its arm while he was giving her the general anasthetic. She said: "As I went unconcious I was

also strangely aware of myself looking down at my body. I could hear and see all that was going on. It was an eerie experience. I knew I should have been unconcious but I wasn't!"

Valerie's father also had a shock she continued: "He was dozing in a chair, and when I walked in, he jumped. He said he had had a frightening thing happen to him. He pointed to another chair across the room and said he had seen himself asleep from that spot. He was whisked back into his body when Val walked in.

Because modern medicine can now bring back people on the verge of death, it has opened up a whole new chapter in Man's search for the truth. Several TV documetaries have been made on the Life After Death subject. One TV programme recently featured people who had 'died' in hospital and were brought back by medical techniques to tell the same stories we have just been reading.

The so-called spirit body was once actually weighed. Does this mean it actually exists? Sensitive scales showed a needle drop down to zero when a dying person on them, died.

So where does a person go when death comes? Where HAS the personality, the energy which powers us go?

To answer that question some people have turned to mediums and psychics for information in the past, and some psychics will tell you that we have all got the gift. They say they can see a spirit leave the body, and usually the psychic is a natural born person with that gift. Obviously this electrical power must go somewhere and the personality must survive somewhere.

One such person who entered this study is researcher and TV personality, book writer, Brenda Butler, of Leiston, Suffolk who writes for us:

"THERE HAVE BEEN MUCH IN NEWSPAPERS RECENTLY ABOUT PSYCHICS. Everyone is psychic if they knew how to use this gift.

Gift isn't actually the right word to use as we are all born with a 'third eye'- our psychic eye as it is called. This psychic eye is to be found in the middle of your brow. If you would like a test to see if you are psychic, just close one of your eyes, look in towards the top of your nose. Wait and see what happens. You should see colours, blues, greens, reds, beautiful colours.

If you practice this every day you



CNK PHOTO

Brenda Butler, co-author of SKYCRASH on a visit to CNK early in 1988.

will gradually see other things coming into view. You might experience a great pulling sensation for a while. That is your psychics opening up. But if it worries you too much stop." Brenda has recently had an article in the East Anglian Daily Times.

THE SPIRIT WORLD AND YOU

If the spirit world is such a nice place to go to, then why don't we all commit suicide and go? This question we put to some local people in Dunmow. Tracy Wright from Globe Engineering: "Well, grass isn't always greener on the other side you know. Many are cowards anyway. I wouldn't do it!"

According to spirit law it is not allowed for a person to take their own life. The same question was asked of Golden Dawn, (Ann Adams) of Ipswich:

"About your question. To that one Lobsang Rampa, a spiritualist teacher, says that we have a built-in mechanism to stay in this world. It is in us for a reason, or we would all do it!" A young lady who works in the local BEEHIVE store, Michele Monk said:

"There's really no solid evidence for another world, and people are frightened and can't believe."

So what is the scientists point of view.

A SCIENTIFIC STUDY OF AFTERLIFE

Many scientists break down everything in life to atomic vibrations and frequencies. The church and science are seemingly at loggerheads with each other.

In late 1987, researcher Brian Smith, a voluntary staff member of this magazine was woken, from sleep, he said by a strange 'entity'. It looked like a

spider in form which disappeared. He was alert enough to hear LBC Radio in discussion with psychic researcher Michael Roll. Brian says he is sure the spirit world WANTED him awake. The gist of the programme was that Mr. Roll was campaigning for extra coverage by the media for the reality of an afterlife, where at present most of it is geared to the Christian church. From what we heard, there's a big row going on in this quarter. He was also saying that a medium had materialised a spirit boy who had given information about himself. This even was to have been 'photographed' using special techniques, and hopefully turned into a kind of 'video'. We have written to both researchers and they have as yet not answered us as to if this experiment was achieved. This was the gist of the radio broadcast. The scientist also said about the discovery of other dimensions, not just in theory, but scientific fact.

One such early researcher was Mr. Fred Sculthorp, of London, who in the 1960's wrote a 'Treatise on the Electromagnetic Basis Of The Spirit Body' which was well ahead of itself in time. CNK will be publishing his work soon. Mr Sculthorp was an out of the body person. He has by his own means discovered that which scientists only today are finding out but has so far gone unrecognised. Mr. Sculthorp died in 1974.

When Michael Roll came on LBC Radio CNK wrote to him. His extensive literature has shown us that he is indeed a one man campaigner to bring to the public the truth. He is fighting the media. He considers the public has a right to know the truth, which the authorities are withholding from us. That truth is the existence of a spirit world, another dimension into which scientists like Archie Roy have been peering into.

CNK gave this information over to psychic Elaine Ibiricu to sift through and this is her contribution.

IS THERE ANYTHING THERE? by Elaine Ibiricu

Have you ever stood on a precipice and wondered how thin the line is between good and evil, reality and illusion, sanity and madness, beauty and beast? Have you ever walked away from it and thought they were not worth dying for, either or any of them? Did its dark beckoning depths scare you? One man who made that jump didn't die for it, he lived through it; to tell the many

adventures of his life with the Indian Seer, Don Juan. He once told his apprentice:

"There is nothing more lonely than eternity. And nothing more cozy for us than to be a human being."

COZY! There is nothing cozy about sweating over test tubes in a hot lab, waiting for a miracle, or kneeling for hours in a chapel, waiting for a miracle. The miracle we wait for is that of knowledge, whether we pray to science or God. When human beings feel at home with their ignorance, that's what I call COZY.



Elaine Ibiricu, Palmist 1987

A masterful exploration of the parallels between science and mysticism was performed by Frit of Capra in his book "The Tao Of Physics". The following is an extract: "In ordinary life, we are not aware of the unity of all things, but divide the world into separate objects and events. This division is, of course, useful and necessary to cope with our everyday environment, but it is not a fundamental feature of reality. It is an abstraction devised by our discriminating and categorizing intellect.

The basic oneness of the Universe is not only the central characteristic of the mystical experience, but is also one of the most important revelations of modern physics. It becomes apparent at the atomic level and manifests itself more and more as one penetrates deeper into matter, down into the realm of sub-atomic particles. In modern physics, the Universe is thus experienced as a dynamic whole which always includes the observer in an essential way."

This idea was taken even further in an intrepid booklet called "The Scien-

tific Proof of Survival After the Death of our Physical Bodies" by Michael Roll. In this booklet he says: "We have our physical body that is made of protons, neutrons and electrons, but we also possess an invisible etheric body that consists of much finer sub-atomic particles that are still within the same atom as our physical particles. At the death of our physical body our mind carries on exactly as before, but within the normally invisible body, and we carry on living in the very substantial universe that is normally out of range of our physical senses. The so-called supernatural and paranormal are natural and normal after all. We are all made of atoms, therefore any discovery within the atom is bound to affect every single person on earth and, indeed, everything in the universe."

Are these two accounts of the thin line between the physics and the mysticism of life in our universe? Are they ripples from the same rock? Fossils from the same bygone age of Genesis? Then wait for what comes next!

The acrobats that walk the tight-rope of physics-cum-mysticism are known as materialisation mediums. In Michael Roll's words: "In the presence of materialisation mediums, the people who are now living in the unseen universe can somehow lower their sub-atomic vibrations and appear in our physical universe for hours on end. During this time they are as solid and natural as we are."

As Don Juan would say: "It is a mystery of awareness and it can't be solved by talking about it. The mystery can only be witnessed."

Elaine Ibiricu 1988

*In the late 1960's scientists discovered a 'Strange Mirror World' when on using an atomic accelerator. A strange particle emerged which they called the 'Zero X-1'. Was this the beginnings of the evidence we seek for life after death, and that of a spirit world. The scientific research alone would fill up this magazine twice over, and we have only scraped the tip of the iceberg. We may cover this aspect of the total scientific in-depth report into these other dimensions, now assumed to be scientifically proven, in a forthcoming issue of this magazine.

Edward Harris. Editor.

The Physicists' and Rationalists' case for Survival After Death

by Michael Roll
December 1987

THE followers of Jesus will be overjoyed to learn that physicists throughout the world are now embracing the most important teachings accredited to this outstanding philosopher, especially what he was reported to have said to the person who was dying next to him on the cross.

"This day you will be with me in paradise." And also "Seek and you will find."

A revolution has taken place in scientific thinking. The nuclear physicists have discovered other dimensions of existence.

The great hero of the physicists, Pythagoras (6th century BC), was a brilliant philosopher as well as a mathematician. He always said that reality also existed beyond our puny physical senses. We now know that Pythagoras, Socrates and Jesus were absolutely correct in their conclusions; that *we all* survive the death of our physical bodies, including animals, and are immediately reunited with our loved ones.

Our short stay on earth is for one purpose only, to learn lessons in this difficult physical dimension, and therefore try to develop our characters. Our physical body is only a space suit, and when it wears out our mind carries on exactly as before, but this time operating in another body that is made up of much finer — faster vibrating — subatomic particles. We now know the so-called supernatural and paranormal are natural and normal after all. Nothing is above the laws of nature.

The marvellous moral codes accredited to Jesus, along with all the other advanced teachers who have tried to place mankind on the path of righteousness, shine like beacons:—

"As you sow, so you will reap." and "Do unto others as you would have others do unto you."

These two vital laws are all that is needed to put mankind on the right course.

Sir William Crookes OM, FRS and Sir Oliver Lodge FRS, were two of the greatest scientists our country has produced. They were the early pioneers of nuclear physics, and were adamant to the end of their earthly lives that proof of survival after death would eventually come from within the atom. Sir Oliver Lodge made the following statement in his book *Phantom Walls* published in 1929 when he was nearly eighty.

"We have to be guided by the facts; and if the facts seem incredible as they do — we have first of all to assure ourselves that they are facts, and then conclude that there is a department of knowledge to which we have as yet not got the key."

At this time only the proton and electron had been discovered, the vital neutron was not discovered until 1932. It is these three subatomic particles that are the building blocks of everything in our physical universe, from the sun, to our bodies, to the air we breathe. Thanks to recent, revolutionary discoveries within the atom, in 1987, we have the key that Crookes and Lodge lacked. Over 200 subatomic particles have now been discovered, some "out of this world".

"I completely agree with these arguments about the reality of the existence of a normally unseen world. I am sure the explanation of these phenomena can be found in Quantum Mechanics, which is applied to the subatomic level. Here we will find the key to the unseen world."

Michael Scott BSc
Astrophysics, Edinburgh University

People like Jesus have a highly developed sixth sense and they are able to bridge the gap between these different dimensions of existence.

We now know that Jesus was speaking to people whose surroundings are as solid and as natural as ours are to us. They exist in our space, but as their subatomic particles — building blocks — are moving at such staggering speeds, they are out of range of our five physical senses. A good example is television. BBC 1, BBC 2, ITV and Channel 4 are all operating in the same space, but at different frequencies — subatomic vibrations. We are made of exactly the same substances as television signals — invisible matter.

To back up this exciting breakthrough in physics, we now have in England a materialisation medium far more advanced than Florrie Cook, the medium that Sir William Crookes experimented with in the 1870's. At this time Sir William was recognised as the greatest living chemist, discoverer of six chemical elements, not the sort of person who would "dabble" in anything. Unlike just one person from the unseen and normally unsensed universe materialising, as Katie King did, we now have as many as seven people materialising at one meeting. A number of scientists, including Alan Crossley — arguably the world's leading expert on this type of mediumship; he was Helen Duncan's biographer, the physical medium who was killed in 1956 — have had the privilege of actually physically embracing their "dead" loved ones. They are exactly the same as we remember them, but thankfully now in perfect health. They are able to materialise for hours on end, just like a party on earth. There can be no question of fraud, because at these meetings all five of our senses are working. Our leading physicists have been making a careful investigation and will be reporting shortly.

The most recent scientists and philosophers will always be the most knowledgeable, simply because they are in possession of all the accumulated knowledge contained in their predecessors' work and also have access to contemporary discoveries.

More scientific discoveries have been made in the last 100 years than in the whole history of mankind put together. Something that seems outrageous to one generation becomes perfectly natural to following generations. All the thoughts and conclusions of our ancestors are only of academic interest to us now.

"I myself have been interested in the paranormal for well over 30 years and what with

my personal experiences and my study over the years I am convinced now of the reality of such phenomena... the question of the existence of the paranormal is not under investigation to ascertain its existence — it exists."

Professor Archie Roy
Department of Astronomy,
Glasgow University, 1983.

For further information please write to 28, Westerleigh Road, Downend, Bristol BS16 6AH, England. Michael Roll will send his thesis "The Scientific Proof of Survival After Death of our Physical Bodies" free of charge to every person who sends a stamped addressed envelope of any size. Everything has been translated into layman's language and the reader will understand every word.

Staggering reaction from the general public to this article. Many are quite rightly fighting mad that these scientific facts have not been presented to them before. Michael Roll.

GHOST IN THE HOUSE. Hartlepool Mail via S. Greenwood:

A Hartlepool man has been forced to abandon his bedroom because of his mother and sister's ghosts. 49 year old Tony Robinson spent 3 months vigil in his living room after mysterious events. Doors open, strange chills, and a wardrobe containing his late sister's coat flies open. He has also seen the ghost of a man appearing on the stairs. He said: "I can sense she is upstairs, and one night she will come and tell me what is the matter." Medium James Byrne said: "Once the spirit has said what they wanted to say, people never sense them again."

HAVE YOU SEEN A GHOST?

Malcolm Robinson would like to know. Address on page 15

GHOST SEEN IN DUNMOW banging on the wall in period costume and moving objects around the room, where the old antiques shop used to stand. Sighting was on January 23 1988 at 5.30 pm.

VISITOR WAKENED BY GHOST OF LITTLE BOY AT HER BEDSIDE

IF there is one consistent feature to stories of so-called "ghosts", it is that they almost invariably seem to have their roots in some famous tragedy from the past.

But sometimes, as in more than one case in the book "Worlds Beyond," they can simply be of some child who never lived long enough to become famous, yet apparently, because of some intense anguish or suffering, went on to perpetuate his or her presence beyond the grave.

The following case is valuable because it is both relatively modern and those concerned were so convinced by what occurred that they chose to be identified by their real names.

The year was 1965, the setting the tiny village of Waresley, Huntingdonshire, where stands a farmhouse, owned in the early part of this century by the Minney family.

When her parents John and Florry died, spinster Margaret Minney stayed on in the house.

Visitor

In the 1960s it was divided into two, the second part being taken in 1964 by an Australian, Mrs Shirley Ross.

On Wednesday, July 7, 1965, Shirley Ross received a visitor, her friend, Stella Herbert, from Kenthurst, New South Wales.

It was Stella's first visit to England since she had been an 18-month-old baby.

On arrival at the doorstep she was briefly introduced to Margaret Minney and the two women exchanged no more than normal pleasantries before Shirley Ross whisked her old friend in to hear all the latest gossip from Australia.

That night, travel-weary Stella stayed in the bedroom next to Shirley's and vividly recalls being woken from a deep sleep.

"I think I had been asleep for some time when I was awakened by a little boy kneeling at the side of my bed.

Clawing

"I can still see his face, so thin and drawn, and he gave me the impression that had he stood up he would have been tall and bony. His hair was fair and straight and falling to one side.

"I sat up in bed and, although he did not speak, I could feel he was asking me to call his mummy and I tried to call 'Mummy!'

"The strange thing was that I knew Mrs Ross was sleeping in the next room, but I also knew that was where he wanted me to call his mother from.

"I could feel his hands clawing at my arm, almost hurting it. This seemed to go on for a long, long time and I was very distressed but not afraid.

"Eventually I called 'Mummy!' rather loudly and at that moment he disappeared. He seemed to be dressed in night clothes. I got the feeling he was wearing pyjamas. Soon after that I went back to sleep."

Tears

Next morning, at about eight o'clock Shirley Ross brought Stella Herbert a cup of tea and on waking, Stella immediately recalled, with some distress, her disturbance of the night before.

She described to Shirley

exactly what had happened, painfully remembering how emaciated the little boy had looked and the feel of his clawing hands.

As Shirley subsequently remembered Stella's description—"She kept telling me how he used a sort of beseeching gesture."

"She said she seemed unable to call as he wanted for a long time and she was greatly upset by his distress. She had tears in her eyes at this time."

Later Shirley called on Margaret Minney to ask her to listen to what Stella had experienced.

Margaret Minney sat quietly in Shirley's living-room as Stella for the second time described the poor emaciated little boy and his clawing fingers.

Once again Stella became overcome with emotion as she recounted the tale, but it soon became obvious to both she and Shirley that equally strong emotions were being felt by Margaret Minney.

Listening in stunned silence until Stella had poured out the full story, she said emphatically of the distressed little boy, "I know that was Johnnie, my brother, who died when he was five."

Incurable

As she explained, 44 years earlier, when she had been a girl of 14, her brother, Johnnie, used to sleep in the very room where Stella Herbert had slept.

In February of that year he suddenly fell ill with meningitis. The day that this occurred his parents were away, and he was being looked after by his mother's sister.

Because of his obvious distress she took him into her bed that night in the next-door room, which was normally his mother's room, and now occupied by Shirley Ross.

On his parents' return Johnnie was rushed to St Thomas's Hospital in London, and after three weeks, when meningitis had been diagnosed, he was sent back home because the illness

She felt he was pleading with her to call his mother, but when she did so, he vanished

★ ★ ★
Extracts taken from the book

WORLDS BEYOND

"Worlds Beyond" by Ian Wilson is published by George Weidenfeld & Nicolson, Limited. Copyright © 1986 George Walker Television Productions, Ltd., UK Productions, Ltd., and Ian Wilson.

Intriguing new series begins.
Remarkable cases from
the files of the Society
for Psychical Research

was at that time incurable. Throughout the long hot summer of 1921 he lay in bed, constantly calling his mother during repeated bouts of pain.

One of the results of meningitis, an inflammation of the membranes of the spine and brain, is repeated sickness and fever. Johnnie had to be repeatedly cooled with ice, and could eat nothing more solid than the white of an egg.

He became increasingly emaciated, before eventually dying.

That night, Stella Herbert slept soundly and continued to do so throughout her fortnight-long stay.

She experienced no further visitation, nor was there any recurrence when two months later she stayed for a further couple of nights immediately prior to returning to Australia.

But Shirley Ross's interest had become thoroughly aroused, and on October 22 she wrote to the Society for Psychical Research.

The case was immediately investigated by G. W. Lambert, a former president of the society.

Photograph

Calling on Margaret Minney at Vicarage Farm, he learned the accuracy of the information outlined by Shirley Ross, and was shown a photograph of Johnnie, taken when he was three years old, before the onset of his illness.

From this and Margaret Minney's information, he was able to establish the validity of Stella Herbert's description of the little boy she had seen, that he had "long and fair" hair which "fell over his left eye."

As a further element of corroboration of Margaret

Herbert's description of Johnnie that "had he stood up he would have been tall and bony".

Furthermore, he cast important new light on a particularly central feature of Stella Herbert's story, that Johnnie, for some hitherto unexplained reason, wanted her to call out "Mummy" for him.

MacKenzie learned that during the final stages of Johnnie's illness he had lost the power of speech.

This finding illuminated a powerful emotion that must have been present in Johnnie's mind during the last stages of his illness, extreme distress that he was no longer able to call for the comfort of his mother.

We have, of course, to consider whether or not the whole story of Johnnie Minney may have been in some way invented by one or more of the three women involved.

The justification for this seems particularly thin. Stella Herbert, for instance, had not been in England since she was 18 months old, and visited Shirley Ross only three days after her arrival in the country.

Psychic

She had neither much opportunity to learn anything about Johnnie Minney, nor any obvious motive for wanting to concoct such a story.

Although she had had an occasional other "psychic" type experience, it was not something she was either used to or tried to cultivate.

Shirley Ross, for her part, who had lived at Vicarage Farm for about 18 months, was emphatic that she had never heard of Johnnie's existence until this was mentioned by Margaret

Minney after Stella's experience.

Margaret Minney confirmed that she had never previously spoken about her dead brother in any prior conversation with Shirley Ross.

Before concluding, one further ostensibly paranormal circumstance associated with Margaret Minney's account of Johnnie's death should perhaps be mentioned.

Apparently he died at 10 o'clock at night and, according to what she was told by her mother the next day, at the moment of his death a flash of white light and a cross appeared on a door in the room at which Johnnie, during the last stages of his illness, had frequently gazed.

Apparition

Andrew MacKenzie, who learned this particular piece of information from Margaret Minney, suggested to her that this might have been caused simply by car headlights.

But she strongly denied this on the grounds that "the house is some distance from the road, with buildings and houses between."

By way of conclusion, Andrew MacKenzie's interpretation of the Johnnie Minney phenomenon is particularly worth quoting: "The boy had wanted his mother when he was first taken ill in the room in which Mrs Herbert slept, but he was then able to call her."

"However, in the later stages of his illness, he must have wanted his mother, who obviously could not be with him all the time, and been unable to call her."

"The tension built up in this painful situation was, I believe, transmitted to Mrs Herbert by the appearance of the apparition... what Mrs Herbert saw was a vivid dramatisation of an old and painful situation."

Are ghosts emotions frozen in time, perhaps etched into a building's fabric just like a musical recording in the grooves of a gramophone record?

If one day physical research achieves a breakthrough into the nature of the so-called paranormal, the case of Johnnie Minney may have been a valuable stepping stone along that path.

BRIEF NOTICES:

CNK would like to welcome as a new reporter Mr. Stanley Greenwood of Hartlepool, Co.Cleveland. He has been a reader and subscriber to CNK from the late 1970's. Stan has sent in some of the UFO reports seen in this issue. Thank you Stanley for your LOYALTY to this periodical.

NORTHERN UFO NEWS: Edited by Jenny Randles, contains the latest UFO data, sightings, and analysis reports. From: 37 Heathbank Road, Cheadle Heath, Stockport, Cheshire, SK3 0UP.(S.A.E)

NEWSPAPER
CLIPPINGS
AND ARTICLES
ALWAYS
WELCOMED
FROM OUR
READERS

DANGER



THE SKY

WHEN A SPRAY CAN IS USED CONTAINING A CERTAIN TYPE OF GAS, WE UNWITTINGLY DESTROY A LITTLE PIECE OF OUR SKY, THE FRAGILE OZONE LAYER OUR ONLY PROTECTION FROM DEADLY RADIATION FROM THE SUN. IT COULD VERY WELL THREATEN ALL LIFE ON EARTH.

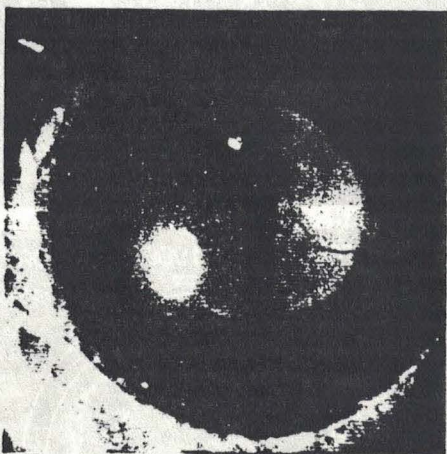
Over the past 20 years our view of the universe is changing. When Earth is viewed from outer space the atmosphere is seen as a delicate blue membrane which encircles and protects, and establishes conditions under which life on this planet survives.

Our story starts in Antarctica the coldest place on Earth, and it is here that the first detection that something was wrong was discovered.

A piece of the sky had vanished! At first, it was thought that this was an isolated occurrence peculiar only to that region, but now it has become clear that other areas on Earth are being affected. It is nature's warning to us that we humans are changing the global atmosphere, and that change will affect ALL FORMS OF LIFE!

What has been put at risk is a form of oxygen called ozone. Ozone makes up a fraction of a millionth of our planet's atmosphere. It is an invisible layer 15 miles up which acts as a sun screen around the Earth our only protection from the deadly ultra violet rays.

Scientists are now warning that ozone depletion will affect the health of all of us causing higher incidents of skin cancer and cataracts of the eyes.



Institute of Ophthalmology

This close-up shows a congenital cataract; There is some evidence that cataracts in the elderly can be prevented if ultra-violet light is avoided. Therefore, people should wear sunglasses on sunny days and when on holiday, or if they live at high altitudes or by the sea, to protect their eyes from sunlight.

It will also effect the immune system and will also effect the climate, damage the growth of plants and alter the food chain.

The rate at which ozone is being produced is in conflict with the rate at which it is being destroyed. We are gradually reducing the level of ozone constantly.

For the first time in history, waste from industrial activity has now reached a level capable of altering the climate on a global scale. This has led to predictions that our planet will get warmer. It is being caused by unnatural shift known as the 'Greenhouse effect' and the polluting gases of factories that are causing this 'greenhouse effect' can also destroy the ozone layer! Damage by industry is hard to detect since climate fluctuates naturally world wide. The hole in the ozone layer in Antarctica has already been investigated by a team of scientists, who have eliminated some natural causes and some man-made ones, and they are now convinced that chlorofluorocarbons are doing the damage. These gases which are man-made are used in every day items such as spray cans, insecticides, and many other industrial applications. CFC's, for short, have definitely been identified as the cause of the ozone depletion. The disappearing ozone layer was not detected in spite of space satellites and computers until recently. It was first spotted by Mr. Joe Farman of the British Antarctic Survey, he reported.

"We have been measuring ozone in Antarctica since 1957 and these are, in fact, the longest series in the Southern Hemisphere. We were, like everyone else, looking for long-term trends which were going to be quite difficult to find, and there, in front of our eyes we seemed to see something completely different; the seasonal variation of depletion and this was so unexpected that we really felt we had to make quite certain our instruments were in good order and our calibrations were correct before we could announce this to the world."

This data revealed that the October levels of ozone over Antarctica had dropped by 50% in less than a decade. What is more, this data was produced from a relatively simple instrument.

At first the findings were doubted,

as nobody else had reported it. Satellite's in space should have seen this hole in the sky, and it was important not to send off a 'red herring' if the findings were wrong. But in fact, the scientists were correct in their establishing a rift in the ozone layer and now the panic has set in.

Computers at the National Aeronautics and Space Administration (NASA), in the U.S.A sifted through the data and programmed them to ignore what was interesting, and then they found the hole. It was centered over Antarctica, and was the size of the U.S.A.

It is now known that it is not confined only to the Southern Hemisphere but a smaller version of it has been found in the Northern hemisphere also. The ozone hole is not stationary, but moves around. Each year the hole positions itself over the American Research base at McMurdo Bay.

Our atmosphere is a complex mixture of gases in harmonious balance and there are 200 known reactions in our atmosphere, 40 of which, strongly effects ozone. The Sun's ultra violet light creates ozone and then destroys it; ozone is an unstable gas.

When molecular oxygen is struck by ultra violet light rays its chemical bond is broken releasing two highly reactive oxygen atoms; each of these oxygen atoms joined with molecular oxygen forming ozone (O_3). Ultra Violet Light goes on to destroy its creation, striking ozone again; more molecular oxygen is formed along with renegade single atoms of oxygen, which search for more molecules to destroy including ozone. This pattern repeats itself over and over again during the daytime so ozone and oxygen are continuously created and destroyed. This cycle is held in a delicate balance, and this is how ozone works for most of the time.

But chorofluorocarbons do seem to be the substance that is causing all the damage. CFC's are known to destroy ozone in the laboratory. CFC's are used as a solvent for cleaning computer chips, for air conditioning, and to make styrofoam products. CFC's are banned in America but are used by the rest of the world and England, as spray can propellants.

It was in 1974 that it was first suggested that the chlorine in CFC chemicals posed a threat to the ozone layer all over the world.

CFC's can last for a century in the atmosphere. Once they drift up into the stratosphere they are hit by ultra violet light torn apart and chlorine is released. This chlorine atom steals oxygen from the ozone molecule, beginning its cycle of destruction by forming Chlorine monoxide or CLO. The sun also strikes ozone leaving free oxygen which collides with CLO releasing molecular oxygen and free chlorine.

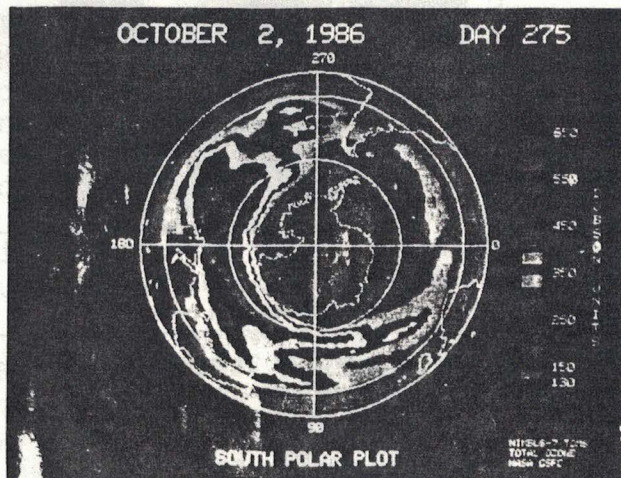
This chain reaction can repeat itself one hundred thousand times for every atom of chlorine. CFC's do not break down in the lower atmosphere. They survive to destroy ozone in the stratosphere. Some scientists have now become activists in CFC restriction.

If ozone is decreasing we will have a very serious problem in the future.

In the last 7 years, an instrument on board the Nimbus Satellite has shown a drop of 3% in the total amount of global ozone.



Generated by the Nimbus 7 total ozone mapping spectrometer, the pictures show the Southern Hemisphere ozone hole expanding over a period of time from September 16 to October 2, 1986.



DANGER IN THE SKY

The rest of the ozone story is very complex and scientific and we hope that in the not so distant future industry will begin to set right the wrongs they have been unknowingly creating over the years...for it will take years for the ozone hole to become normal again. So the sooner we all become aware of the danger and start acting responsibly, the better.

The next problem as well as the ozone problem is the 'greenhouse effect'. Have you noticed how comparatively mild this winter has been in some parts of the world? This too is due to Man's polluting activities.

Earth's atmosphere acts like a mild greenhouse and we are all a lot more comfortable because of it. Without it the temperature would hardly get above freezing. But now due to gases emitted by industry, cars and the like of, more carbon dioxide is being introduced than ever before into our skies. A screen of carbon dioxide can act like the glass in a greenhouse letting in sunlight and trapping the heat. Once this has happened a cycle sets in which can start to raise the temperature of the planet to well above normal. Primitive forests acted as a regulator for the gases and CO₂, but industrial output of toxic wastes have built up in the atmosphere to fall as toxic rain. Acid rain is now destroying our forests world wide, and in Germany it is known as 'WALD STERBEN' in which half the Black Forest was showing signs of it.

WILL EARTH BECOME ANOTHER VENUS?

In 1978 10 robot satellites were heading towards the planet Venus and were to drop down into its swirling mists. They did not last long. The temperature on Venus never drops below 800 degrees. The atmosphere is carbon dioxide crushing down with a pressure of 90 times that of Earth

More than half a ton per square inch. And when it rains, it rains fluoro-sulphuric acid, much more nastier than car battery acid.

Now one of the questions being considered for study is COULD IT HAPPEN HERE?

How did Venus become so deadly?

"Venus, is in some ways very much like a polluted Earth." Dr. Garry Hunt of University College, London, believes. His laboratory is set up to study the atmospheres of other planets, in 1978. He said then: "We know that carbon dioxide is increasing in our own atmosphere-by something like 50% since the last century-largely due to our burning of fossil fuels.

"And we're doing daft, stupid things like cutting down millions of trees, which act as natural air cleaners to remove carbon dioxide from the air."

This could be destroying the balance of ecology on Earth, and Earth could well become another Venus if we do not watch out.

The discoveries about Venus was a shock. Before the advent of the space age Venus was considered Earth's sister planet, since it is almost the same size as Earth, its evolutionary path seems consistent with ours. Its terrible climate is not alone due to it being closer to the sun than ours, but due to the acid droplets of sulphuric acid. Venus is now not the pleasant little world we all thought it was. What went wrong, scientists are now certain, that it is a runaway greenhouse effect.

Earth's never got out of hand because we had the regulators seen in the above. Also Earth's oceans must have swallowed up vast amounts of carbon dioxide. Venus, on the other hand, seems to have little water, if any. This fits the greenhouse effect. So where did Venus' oceans go to?

Why has Earth large quantities, and why has Mars dried out? Many other factors could be causing Venus' greenhouse situation. 1. She has no magnetic field. 2. Venus rotates in the opposite direction to Earth, and much more slowly. 3. It has 200 mph hurricanes. 4. Electrical storms from the sun to pour straight in due to the no magnetic field. Will the likelihood of such a catastrophe arrive on Earth if we are not careful?

Some scientists now believe that the exact opposite is occurring- that we are heading into another ice age! After a fairly dramatic temperature rise-perhaps by 6 degrees centigrade during the first half of this century; and it has been found that

in the 80's of EVERY century, there is always lower temperatures-rising again in the 90's, Earth, however, seems to have been cooling down since the 1940's. The Polar ice caps, in 1978 were growing, and glaciers advancing. Yet the extremes of heat & cold are giving us strange weather patterns as we all saw in Switzerland in 1987 when all the snow caps peaks had less snow on them than usual making skiing impossible. If Earth had been just over a million miles closer to the sun, it would have become a 'greenhouse' like Venus. If Man can start to think beyond the fatness of his wallet, then we may even now escape becoming like that!

Volcanoes play havoc with our climate too. Their eruptions over the years can put a layer of volcanic ash around the Earth, which if severe enough can bring about the loss of plant life on which we all depend, by cutting out the sunlight.

WHAT KILLED THE DINOSAURS?

See in a future issue of this magazine. With real pictures.

Edward Harris

UFO REPORTS

January and February 1988 seems to have seen some good UFO reports seen in our national daily press. The STAR, has been responsible for some good UFO reports, and the following was from Australia: (Well done STAR)

There have been 80 MANY UFO sightings this year we can only show you a few.

THE STAR

THE NEWSPAPER THAT'S LIGHT YEARS AHEAD

FRIDAY, JANUARY 22, 1988

20p (21p Cls)

UFO

Family
car is
plucked
into the
air by
aliens

HIJACK TERROR

By CHRIS ANDERSON

A SOBBING family told last night how they were kidnapped by a UFO as they drove down a deserted Australian highway.

Faye Knowles and her three sons sat terrified in their car as it was plucked into the air by a glowing, egg-cup shaped spaceship which had pursued them.

They tried to scream but their voices were slow and slurred. Then the UFO dumped the blackened, dented car back on the road. The family were found by truck driver Graham Hewley who said: "They were in a state of shock."



Truck driver Graham Hewley relives the scene on the isolated plain the day the aliens came

Mrs. Faye Knowles went on Australian Television and described her UFO ordeal.

The UFO clung to the roof of the car and shook them. And there was a foul smell too. Mrs Knowles two dogs even cowered in fear, and their voices became slurred like slow motion. Her car was lifted up and returned with such force that a tyre burst. Soot covered the car and was found to have 4 dents as if picked up by a magnet. Mr. Hewley says truckers have seen lights in the area for 30 years.

UFO Incident in Alaska Revives Old Question

By J. Antonio Huneus (ICUFON)

The media's recent attention on a UFO incident in Alaska has shown that flying saucers are still alive and kicking. Despite four decades of official ridicule and academic indifference, it takes just one new good case to bring back again for public appraisal the old UFO question. Captain Kenju Terauchi's Japan Air Lines (JAL) Boeing 747 cargo jet, flying across the Arctic circle between Reykjavik Iceland, and Tokyo, provided just that case.

The incident actually occurred on the evening of November 17, 1986; yet it wasn't until New Year's that the story was leaked to the press. The Federal Aviation Administration (FAA) and the U.S. Air Force acknowledged initially that the UFO had also been detected by ground radar in Fairbanks, Alaska. On January 4, FAA spokesman Paul Steucke admitted the agency was conducting a formal inquiry of the event and had interviewed the JAL crew for a second time. "The reason we're exploring it is that it was a violation of air space," said Steucke.

However, what followed seemed like a rather too quick-paced "official investigation" of the radar tapes, which promptly dismissed the whole thing as a case of radar misidentification. It was labelled an "artifact", which in radar jargon doesn't mean a material object but a "ghost", in this case the 747's "double image". Nonetheless, the Alaska incident cannot be dismissed that easily, since it wasn't merely a radar case but also — in the late Dr. Allen Hynek's classification — a "radar/visual" case. Captain Terauchi insisted he saw "a very big" object, approximately "two times bigger than an aircraft carrier," as well as two smaller objects which paced his plane for 400 miles during at least half an hour. The co-pilot and flight engineer also saw the UFO lights.

Neither can the Alaska case be considered unique in terms of type of event or by location. A declassified U.S. Navy Intelligence Report dated February 10, 1950, for instance, describe two sightings of "unidentified airborne objects by various naval personnel" on January 22 and 23, 1950, near Kodiak, Alaska. In one case, a Naval security patrol plane P2V3 "reported an unidentified radar contact 20 miles north of the Naval Air Station, Kodiak, Alaska."

More significantly, Lt. Smith also "reported a visual sighting of an unidentified airborne object", climbing to take a better look. "He was unable to do this," continues the Navy report, "as the object was too highly maneuverable." At one point, the pilot even described "a

highly threatening gesture" from the UFO. On the following night, a second security flying patrol sighted UFOs a second time in the Kodiak area, although this time no "radar contacts" were made. The report concluded that, "the exact nature" of the phenomena "could not be determined by this office". The case is just one in thousands in old military records.

Evasive action

JAL Flight 1628 was flying enroute to Japan on a routine cargo haul between Iceland and Anchorage. The 747 was cruising normally at 525 knots at 35,000 feet when around 6 pm, Capt. Terauchi sighted "two columns of light" about a mile ahead and some 30 degrees to his left. The pilot radioed the Control Tower at Anchorage to check if there was any other air traffic. Anchorage responded negatively. "Suddenly the lights came to within 500 to 1,000 feet of the plane," said Terauchi, he described the lights like "two dark cylinders with row after row of spinning amber lights," which casted no shadow.

Captain Terauchi seemed predisposed to the idea of UFOs. "I was sure it wasn't another plane," he said later in an interview, "it moved so quickly that I realized it was not something human but had to do with very high technology, very high intelligence. I thought it may be a UFO." Stranger things continued to happen. A blip was detected on the 747's weather radar, and the cylinders "flew in formation" with the jet. At this point, FAA spokesman Paul Steucke explained later, "his (Terauchi) main concern was trying to determine whether he was overtaking another aircraft."

The Captain then requested permission to take evasive action from ground authorities, which granted it and proceeded to give him instructions. The Boeing dropped 4,000 feet and made several turns, but the lights "were still following us," said Terauchi. Near Fairbanks, Terauchi glimpsed a huge round object, about "the size of two aircraft carriers." He later speculated it was a "mothership" of possible extraterrestrial origin. Co-pilot Tamefuji and flight engineer Tsukuda, however, did not see the large UFO, although they did see unusual lights pacing the plane. The lights finally vanished at 6:53 pm, and flight 1628 landed in Anchorage without further incident.

FAA officials interviewed the crew, releasing later a statement to the effect that they were "normal, professional, rational, (and had) no drugs or alcohol involvement." When the story was finally leaked around New Year's, both the Air Force and the FAA admitted that ground radar blips had been detected around the time of the JAL sighting. The

Air Force soon dismissed them as "electronic clutter." The FAA and the military use the same long-range radar in Fairbanks, but the FAA also uses a sophisticated computer system to remove clutter from radar images. FAA ground records indicated that something stayed close to the JAL 747 for 32 minutes! In due time, however, this radar evidence was also dismissed by the FAA as the plane's "double image."

A solid case

This writer decided to go behind the headlines and seek the opinion of one of the top scientific experts in the UFO field. Dr. Richard Haines has the best possible qualifications to investigate this case. Employed by NASA since 1967, where he has worked as a research specialist in human perception with regards to avionics, Dr. Haines works currently at the Ames Research center in Mountainview, California. Dr. Haines is also an accident investigator for the FAA and the National Transportation Safety Board (NTSB). In addition, he is a leading scientific ufologist, having published a textbook on human perception vis-a-vis the phenomenon, Observing UFOs; he has also collected probably the world's largest catalogue of UFO/aircraft incidents, which presently contains over 3,400 bona fide cases.

Reached by phone at his residence in northern California, Dr. Haines indicated that he was investigating the Alaska case. He termed it a "significant" and a "solid" case, "indicative of a very typical kind of encounter at high altitude." Dr. Haines added he had "tape recorded almost three hours of interview with him (Capt. Terauchi)," as well as with personnel from another airline, the FAA, the Air Force, the UPI correspondent in Alaska, and a number of other people.

"The case is still open as far as I am concerned," said the space expert, adding that he couldn't give a final verdict until completing the investigation. Nevertheless, Dr. Haines summarized his assessment of the case: "Based upon all the information (collected), I think it is a very solid case; it doesn't contain any electromagnetic effect on-board the airplane other than radar contacts, but nonetheless it is indicative of a very typical kind of encounter at high altitude."

Dr. Haines also explained some of the more arcane aspects of radar and aircraft technology. "The Boeing 747 cargo model," he said, "has an expand radar, which is primarily a weather avoidance system tuned or optimized to the weather molecules." In other words, it can pick up weather like thunder clouds and so on. Dr. Haines added that, "data I was given by the FAA indicated that there were some ground radar contacts of the object as well."

However, continued the space expert, "later the FAA also changed their story and referred to it (ground radar contacts) as an artifact." Contary to the popular usage of the word, Dr. Haines explained that "an artifact in science or engineering refers to some sort of mis-identified end result." The investigator put it in plain English: "They (the FAA) are trying to say that it was a malfunction or a very unusual occurrence." But there is more.

Dr. Haines also referred to the maneuvers executed by both the JAL jet and its apparent pursuer. "The object followed the 747 around almost a 360 degree circle," he said, "and maintained the same position relative to the airplane all the way round, which I find is very interesting." Since the airplane was in about a 30 degree bank at 500 knots roughly, continued Dr. Haines, "it (the UFO) would have to be travelling a good deal faster than that" if it was a mile away and kept the same position from the 747. Finally, Dr. Haines remarked that, "the Alaska case, I think, is going to turn out to be a very interesting one from the standpoint of a new pattern of lights that I have never heard of before." Dr. Haines was referring to the so-called "cylindrical" lights described by Capt. Terauchi as yellow, amber and green but not red, which is the international color for aircraft beacons.

This writer also inquired with another space expert interested in UFOs. James Oberg is a Houston-based, leading space writer and ground-systems specialist; he is a well-known expert on the Soviet space program and a skeptical UFO investigator. Oberg has openly criticized in the past the record of UFOs reported by pilots, characterizing them as poor eyewitnesses because of their concern for the safety of the plane and passengers. In various articles and lectures, Oberg has stated that pilots "are trained to interpret visual stimuli in the most dangerous immediate terms." This has led, for instance, to cases where fireball meteorites hundreds of miles away were reported by pilots as near collisions.

Oberg, however, conceded the Alaska case was a good one, calling it even "extraordinary." Yet he pointed out that Capt. Terauchi's own statements to the press seemed to indicated that he was "a UFO enthusiast. It's my conclusions from that," said Oberg, "that he went into this experience with a substantial UFO lore background." This was shown when Terauchi reported a second UFO during a JAL cargo flight over Alaska on the night of January 11. He later admitted, however, that what he saw was "the light of a town" reflected off ice crystals. This is "not good for his credibility," remarked Oberg.

On the other hand, there is nothing wrong with Capt. Terauchi's professional record. He was a Japan Air Self De-

fense fighter pilot and has 19 years of good flight experience. Dr. Richard Haines, who interviewed him for three hours, remarked that "he (Terauchi) did a good job with the drawings and verbal descriptions of what he saw." James Oberg also confirmed that he Alaska case doesn't have "the characteristics of a space launch"; he has gained quite a reputation identifying UFO sightings in South America, the USSR, the US, and elsewhere with specific space launches. "I suppose we are looking at some kind of atmospheric apparition," said Oberg, adding that he had not yet any definite conclusions.

Aircraft/UFO catalogue

This writer and Argentinian journalist Alejandro Agostinelli interviewed at length Dr. Richard Haines during a symposium of the Mutual UFO Network (MUFON) a few months ago. The scientist outlined various reasons why aircraft/UFO encounters are of particular interest. "Pilots are good observers, and they are in control of an airplane than can maneuver," said Dr. Haines. This mean the pilot can do a number of maneuvers and observe the UFO, for example, from an earth background. Another reason, continued Dr. Haines, is that "airplanes have many instruments on them, compass, radio, direction finder, inertial systems, so that the UFO effects might interfere or change the behavior of the airplane's systems." Dr. Haines elaborated that, "just as you and I have a thumb print, the UFO may have a thumb print which is unique in terms of frequency, power, time, and the airplane systems is a way of getting the thumb print of the UFO."

Dr. Haines confronted James Oberg's criticism towards pilots as UFO witnesses. The difference of opinions stems partially, he said, due to the fact that Oberg Criticizes "cases by pilots on an engineering background in a very general way," while "I do investigations one by one with one pilot at a time, to understand everything I can about him as a person, vision, physiology, health, mental health, motivation, training, family relations, etc." All these factors are taken into account before closing a case. Dr. Haines' experience as an FAA and NTSB accident investigator comes handy here.

Dr. Haines has collected over the years a data base of "about 3,400 cases from commercial, military, private and test pilots, from most of the countries of the world, and which goes back to 1923." Approximately 70 percent of the index are bona fide UFO reports in his opinion, and some 30 percent include radar contacts. The remaining 30 percent are old cases from the Air Force's Project Bluebook where, he said, "the research was poor." The obvious IFO (Identified Flying Object)

cases have been deleted from the index. Dr. Haines is currently working on a book that will summarize his research in this field.

Perhaps the strangest UFO/aircraft incident on record investigated by Dr. Haines, is the disappearance of pilot Frederick Valentich off the coast of southern Australia on October 21, 1978. Up to this day, not a single trace of the 122L Cessna airplane or the pilot has been found. "It's a very significant event because we have a tape recording with the pilot's voice talking to the ground authorities at the same moment the events are happening," explained Dr. Haines. "Consequently, we have the opportunity to study voice characteristics and frequencies on the tape which may be related to the UFO." Dr. Haines' forthcoming book, "Melbourne Episode: Case Study of a Missing Pilot," will trace the incident in detail and explore some of its possible explanations. But that is another story.

"UFO CONTACT IGAP JOURNAL" (Denmark)
June 1987.

February 1988
Newspaper unknown

Wot's all this? Cops spot UFO

By ANDREW PARKER

STUNNED bobbies Stuart Griffiths and Michael Powell raced back to their nick to report a UFO sighting on patrol.

Sgt Stuart, 35, and PC Michael say they saw a spinning object with flashing green and red lights while out in a panda car at Willenhall, West Midlands.

Their by-the-book log entry mentions a "bright light" "proceeding through the night sky in a north-westerly direction."

NEW EUROPEAN CONTACT FOR CNK: We welcome Fräulein Andrea Schmülling of KLEVE West Germany. She will send in data when possible. Thanks Andrea.

UFOs

Alison Jenkins investigates one man's strange hobby

MALCOLM ROBINSON from Sauchie runs the risk of being ridiculed when people hear what his hobby is. For he spends most of his spare time investigating the para-normal and, in particular, "ufology".

He investigates reported sightings on UFOs and believes that the more information gathered on possible sightings of unidentified flying objects can only help solve the many unanswered questions.

He accepts that most people are sceptical, and admits that he was too until he started investigating the subject, but challenges anyone who is unbelieving to read some of the better authenticated reports of UFOs then give their opinion.

He is a member of SUFON, the Scottish UFO Network which collects, analyses and publishes information or reports on UFOs.

"Their aim is to make people more aware that there is indeed something unusual being witnessed in the skies throughout the world, but whether this can be attributed to extraterrestrials entering our air space is as yet debatable.

"I believe that there is something highly unusual going on and being witnessed throughout the skies on a global scale, but what this represents is another matter", he explained.

"We may wish it to be extraterrestrials entering our air-space in flying saucers but we should not seek to use this avenue of thought as the bottom line".

Malcolm said that people had to remember that 95 out of 100 sightings of what are termed UFOs are, after research, found to have had natural explanations.

"This of course leaves us with a remaining five per cent and, even although this would appear to be a small and insignificant amount, we nevertheless should not ignore it.

"We certainly at this point cannot account for the remaining percentage but we should continue to strive to resolve this. Only through research and dedication can we ever hope to do this".

That is why Malcolm believes it is important for anyone who witnesses something strange in the skies to report what they have seen so it can be investigated and the information kept on file.

There have been a number of reported sightings of UFOs in the Denny area which Malcolm explained is known as a 'window' area.

These 'window' areas are places where a higher than average number of sightings are recorded, but he could give no explanation as to why Denny should be one of them.

Malcolm says he always keeps an open mind when going to investigate a reported sighting and says it is up to the person who claimed to have witnessed something to convince him.

He was involved in the investigation of the reported sighting of a landing of a UFO in 1979 in West Lothian. Forestry worker Bob Taylor reported seeing an object in a field and two small spherical shapes coming towards him.

Marks were found in the field where he said the object had landed and it was estimated that whatever had been there must have weighed several tons. There were no other marks leading to the spot.

Malcolm said he found Mr Taylor to be very reliable and sincere.

"I do not think he would be the type to have made up the story", he said.

He said it was wrong of people to assume that people who say they have witnessed a UFO must be unsound.

"I think that if the man or woman in the street stopped for a moment and just read the data, their views would be drastically changed".

If anyone has anything to tell Malcolm about their interest in UFOs or if they think they may have witnessed one, they can contact him at 4 Woodlea Park, Sauchie, telephone 215929.



STIRLING OBSERVER
Friday, 13th June, 1986

Are flying saucers old hat?

By Stan Morrison

Jerome Clark, a longtime UFO writer-researcher and Associate Editor of *Fate* magazine, wrote an interesting and timely commentary in the October 1983 issue on the present status of the UFO phenomenon in which he basically pointed out a fact that truly needed to be announced — mass UFO sightings (flaps and waves) have evidently ceased.

The last fairly major UFO flap occurred, according to UFO experts, five years ago, in 1979. Since that time, UFO invasions, such as the year-long flap that hit Hartshorne, Okla., in 1965 and the major October 1973 wave that hit the entire nation, have been extremely sparse, with mostly singly reported sightings of a non-sensational nature.

When "flying saucers" first became known to the public in June of 1947 when pilot Kenneth Arnold sighted nine metallic objects near Mt. Rainier, Washington, it was generally believed that his published narrative coining the now well known Americanism, "flying saucers," was a description of the physical shape or construction of the objects.

The fact of the matter is that they, according to Arnold, looked like "tadpoles" rather than "saucers." His description "flying saucers" was denoting the way in which they flew: "Like saucers skipping over water." Yet, interestingly, since Arnold's sighting 37 years ago, millions of

Commentary

people around the world have observed flying "saucers," or discs.

Although the true core of the truly "unidentified" flying objects does, indeed, appear to be technological or mechanical, it is also evident that the phenomenon — at times — appears chameleon-like and corresponds with people's frames of reference. It is, indeed, a complex enigma; and this interesting "saucer"- "tadpole" discrepancy has never been made note of before, as far as I'm aware.

I recently investigated some recent Bigfoot activity in northeastern Oklahoma, and, when I was considering various explanations and theories, I started receiving reports that — chameleon-like — corresponded or molded to my beliefs and hunches of that period. Just as some UFOs evidently have done in the past.

But there are always exceptions to rules and new ideas. For instance, saucers and discs had been observed before Arnold. In fact, on January 24, 1878 — exactly 69½ years before Arnold's sighting — a Dennison, Tex., man reported to a newspaper a fast-moving object that flew over his farm as looking like a "saucer." (This documented account was only recently discovered.)

And in ancient Greek and Roman records, there are accounts of "flying shields." So, flying saucers — though not known by the very apt and accurate term "flying saucers" — were

indeed witnessed long before the world knew them as such.

Not long ago, Dr. J. Allen Hynek, who was the astronomer who investigated UFOs for the Air Force during the '60s (and who formed the Center for UFO Studies after he recognized that UFOs were real), said on a popular television show that the reason that UFOs have mostly vanished from the popular press is because the phenomena are no longer newsworthy.

"They are seeing the same thing over and over again." In other words, UFOs have become "old hat."

I think it is very interesting that since more and more scientists (and some very good ones at that) have become involved in UFO research, the major flaps and waves of yesteryear have not repeated themselves.

Perhaps the days where you could find rows of cars lined up on the sides of highways around the country with whole families staring up into the blue watching strange discs and peculiar cigar-shaped objects cavorting and hovering, are now the stuff of esoteric history.

But certainly someone somewhere — perhaps you — will see something tomorrow night in the sky that catches your eye and that you, and perhaps no one, can identify.

So maybe the UFO phenomenon hasn't died — maybe it's just gone to sleep for a while.

Morrison lives in Morris, Okla.

San Diego Union
22/4/1984

UFO report filed

POLICE in Chelmsford are filing an official report to the Air Ministry, after a UFO sighting was reported over the county town at the weekend.

The sighting was reported by a Witham man who was driving home along the A12 near Hatfield Peverel on Sunday evening when he saw a mystery object in the sky over Chelmsford.

He said it was a bright light which travelled across the sky from left to right for about three seconds, then burst into flames and left behind it a vapour trail.

"He said he thought it might be an aeroplane or possibly a meteorite," said Insp David King of Chelmsford Police. "It was quite a serious report and we have been taking the sighting seriously."

Insp King added that checks with air traffic control at Stansted and Southend airports and with the Ministry of Defence had confirmed that the airspace over Chelmsford should have been clear at the time.

"We are now in the process of compiling a report for the air ministry," he added.

Source: YELLOW ADVERTISER, 1, High Street, Chelmsford, Essex, CM1 1BY
JANUARY 22, 1988.

MY UFO ENCOUNTER—BY SHOCKED NURSE

NIGHT nurse, Elda Coretti sparked a military alert yesterday after seeing a UFO.

The glowing object—as big as a double-decker bus—soared across the sky before turning from circular to cigar shape.

Then it vanished over the horizon leaving Elda, 50, stunned and shocked.

Police and defence officials immediately launched a probe into the sighting, which happened at 6.35 a.m. as Elda was finishing her shift at Bath's Royal United Hospital.

STAR REPORTER

She said: "I watched it from the window as long as I could. It was yellow-orange."

"I ran in and told my colleagues, then rang the police."

Elda added: "I hadn't been drinking or dabbling in the medicine cupboard—I know what I saw."

At nearby RAF Lyneham, Squadron

Leader Ernie Dunsford said: "I don't think this lady should be knocked."

"We certainly had no planes up in the air. I've got to keep an open mind on this."

A new organisation called Skyscan has been set up in Worcester to probe the recent flood of UFO sightings all over Britain.

THE STAR, Wednesday, March 2, 1988

Cops see mystery UFO over the nick

'ELLO 'ELLO—the old hands at the cop shop swapped knowing grins when a police-woman breathlessly radioed in to report: "I can see a UFO."

But then they heard a strange droning noise pass over the station.

WPC Sue Jackson was sent to investigate when the nick was flooded with phone calls reporting a bizarre craft floating in the sky over Ecclesfield, near Sheffield, Yorks.

As Sue, 29, drove in her Panda she spotted a V-shaped machine hovering just yards away.

A row of flashing red lights on the side of the Star Wars-style craft lit up the entire area.

Blank

Thirty seconds later the mystery craft flew off—and then, as stunned Sue radioed the station, officers there heard a whirling overhead.

A check with RAF Finningley near Doncaster revealed that nothing had appeared on their radar.

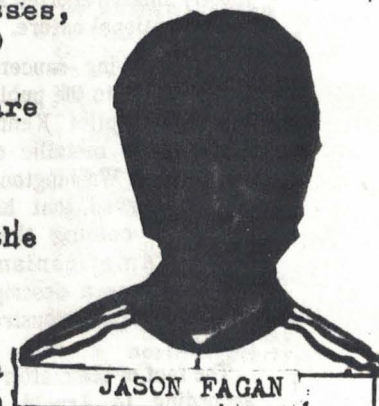
A police spokesman yesterday said: "It was snowy and dark—but we did hear SOMETHING pass over the nick."

DAILY MIRROR, Monday, February 8, 1988

AMATEUR RADIO IN SPACE By Jason Fagan AMATEUR RADIO SATELLITES

Amateur radio has also become part of the space-age now, and it is helping radio communications world wide, thanks to amateur radio satellites. There have been 3 phases of them. Phase one was purely experimental to find out if any could actually be heard or survive in space. Termed as Oscar 1-S burnt up in the earth's atmosphere very soon. Oscar stood for Orbital Satellite Carrying Amateur Radio. After various degrees of failure and successes, with the early ones only transmitting on 100 mw, Oscar 10 was launched in 1983 as part of AMSAT U.K. It has a high elliptical orbit and transponds 435 to 145 MHz. All these are built and designed by amateurs, and paid for by them. The doppler shift must be allowed for when transmitting, and applies to receiveing. The USSR, Australia, China & Africa, can all be contacted via them. New to 1987 was the Phase 3-D satellite. Through the 3-D system you can once again speak to friends all over the world. Building antennas at home is impracticable, and TV interference too. Now the 3-D system allows this with only a small antenna from your balcony or window will put you in touch with the world. Even hand-held radios will accomplish this too. It provides a new DX-Band for low power amateur stations, and at 15 hours per day provides 5 times as much communication capacity as the existing HF-DX bands for local and world wide communication. AMSAT P3-D is being built as a world wide joint effort and it is hoped it will be launched in 1990.

Jason Fagan (c) 1987



BOOKS

Compiled by David Prockter, with assistance from Adam Blake & Barbara Gordon

BERLITZ Charles	THE BERMUDA TRIANGLE	1974
BERLITZ Charles/MOORE	THE ROSWELL INCIDENT	1980
BINDER Otto	FLYING SAUCERS ARE WATCHING US	1968
BOWEN Charles	THE HUMANIDS	1969
BOURNET J.C.	THE CRACK IN THE UNIVERSE	1977
BRACEWELL Ronald	THE GALACTIC CLUB	1975
BUCKLE Eileen	THE SCORITON MYSTERY	1967
CADE C.Maxwell	OTHER WORLDS THAN OURS	1967
CASTLE E.W & THIERING	SOME TRUST IN CHARIOTS	1973
CONDON Edward U.(Ed.)	SCIENTIFIC STUDY OF UNIDENTIFIED FLYING OBJECTS	1969
CONSTABLE Trevor James	SKY CREATURES: LIVING UFOS	1978
CLARKE & L.COLEMAN	THE UNIDENTIFIED	1975
CORLISS . William R.	STRANGE PHENOMENA: A SOURCE BOOK	1974
DEVEREUX Paul	EARTHLIGHTS	1982
EDWARDS Frank	STRANGER THAN SCIENCE	1967
EMENEGGER Robert	UFOS PAST, PRESENT AND FUTURE	1974
EVANS Hilary & J.SPENCER	UFOS 1947 - 1987	1987
FAWCETT L.& GREENWOOD B.	CLEAR INTENT	1984
FLAMMONDE Paris	UFOS EXIST	1976
FOWLER E. Raymond	UFOS: INTERPLANETARY VISITORS	1974
FOWLER E Raymond	FIELD INVESTIGATIONS MANUAL	1975
FOWLER E.Raymond	INCIDENT AT EXETER	1966
FULLER John G.	ALIENS IN THE SKIES	1969
FULLER John G.	THE INTERRUPTED JOURNEY(New Edition)	1980
GRIS Henry & William DICK	THE NEW SOVIET PSYCHIC DISCOVERIES	1979
GOOD Timothy	ABOVE TOP SECRET	1987
HALL Richard	THE UFO EVIDENCE	1964
HENDRY Allan	THE UFO HANDBOOK	1979
HOPKINS Budd	MISSING TIME	1987
HYNEK J. Allen	THE UFO EXPERIENCE	1972
HYNEK J.Allen	THE HYNEK UFO REPORT	1977
HYNEK J.Allen & VALLEE J.	THE EDGE OF REALITY	1975
JUNG Carl	FLYING SAUCERS	1959
KEYHOE E. Donald	FLYING SAUCERS FROM OUTERSPACE	1969
KEYHOE E. Donald	ALIENS FROM SPACE	1975
KEEL John	STRANGE CREATURES FROM TIME & SPACE	1969
KEEL John	OPERATION TROJAN HORSE	1970
KEEL John	OUR HAUNTED PLANET	1971
KEEL John	THE COMSMIC QUESTION	1978
KLASS Philip	UFOS EXPLAINED	1974
KUSCHE L.D.	THE BERMUDA TRIANGLE MYSTERY SOLVED	1975
LE POER TRENCH Brinsley	THE FLYING SAUCER STORY	1975
LE POER TRENCH Brinsley	MYSTERIOUS VISITORS	1975
LORE Gordon & H.H.RENAULT	MYSTERIES OF THE SKIES	1970
LUNAN Duncan	MAN AND THE STARS	1974
HOBANA Ion & J.WEVERBERG	UFOS FROM BEHIND THE IRON CURTAIN	1975
OLIVER Norman	SEQUEL TO SCORITON	1968
RANDLES Jenny	UFO STUDY	1981
RANDLES Jenny	THE PENINE UFO MYSTERY	1983
RANDLES Jenny	THE UFO CONSPIRACY	1987
RANDLES & WARRINGTON	SCIENCE AND THE UFOS	1983
RIDPATH Ian	WORLDS BEYOND: SEARCH FOR LIFE BEYOND OUR PLANET	1976
RUPPELT Edward J.	THE REPORT ON UNIDENTIFIED FLYING OBJECTS	1956
SAGAN Carl & T.Page	UFOS: A SCIENTIFIC DEBATE	1972
SAUNDERS David R.& HARKINS	UFOS! YES?	1968
SANDERSON Ivan T.	UNINVITED VISITORS	1967
SANDERSON Ivan T.	INVISIBLE RESIDENTS	1970
SANDERSON Ivan T.	THINGS	1972
SANDERSON Ivan T.	OTHER THINGS	1974
SALISBURY Frank	THE UTAH UFO DISPLAY	1974
STANFORD Ray	SOROCOCC SAUCER IN PENTAGON PANTRY	1978
STANWAY R.& A.PACE	UFOS - UNIDENTIFIED - UNDENIABLE	1968
STORY Donald D.	THE SPACE GODS REVEALED	1976
STORY Ronald D.	GUARDIANS OF THE UNIVERSE	1980
STORY Ronald D.	THE UFO ENCYCLOPEDIA	1980
STORY Ronald D.	UFOS AND THE LIMITS OF SCIENCE	1981
VALLEE Jacques	PASSPORT TO MAGONIA	1969
VALLEE Jacques & Janine	CHALLENGE TO SCIENCE	1967
VALLEE Jacques	UFOS: THE PSYCHIC SOLUTION	1977
VALLEE Jacques	MESSENGERS OF DECEPTION	1979
VALLEE Jacques	ANATOMY OF A PHENOMENON	1966
WATKINS Alfred	THE OLD STRAIGHT TRACK	1925
WEBB David	ANALYSIS ON HUMANOID ABDUCTION REPORTS	1976
WILKINS Harold T.	FLYING SAUCERS UNCENSORED	1956
ZINSSTAG & Tim GOOD	GEORGE ADAMSKI - THE UNTOLD STORY	1983

Rare criticism from Soviet space chief

SPACE NEWS WORLDWIDE

EX-COSMONAUT Vladimir Shatalov, now Chief of the Yuri Gagarin Cosmonaut Training Center ('Star City') near Moscow has had some critical comments to make about the Soviet space program. His criticisms came during a recent interview, in which he stated that, apart from the program to make detailed observations of the Earth from space there was a "lack of purposefulness and consistency" in the space program.

He continued by saying that, although a lot of the work being conducted in space could potentially lead to considerable 'spin-off' benefits back on Earth, the crews "will bring the results back and everything will disappear down a hole."

Responding to a question about crewmember creature-comforts in space, Shatalov stated that "relaxation onboard the craft is the Achilles' heel of spaceflights... it is necessary to have good collections of books, video cassettes, tape-recordings and regular televisual contacts with families. Sometimes you also need to be alone in your cabin."

"As the (space) stations are improved, so the opportunities for relaxation will also increase... it is very important to switch from today's psychological crew support which, like it or not, is weak, to permanent psychological contact between the cosmonaut and Earth."

Internal Ice Key to Miranda's Surface?

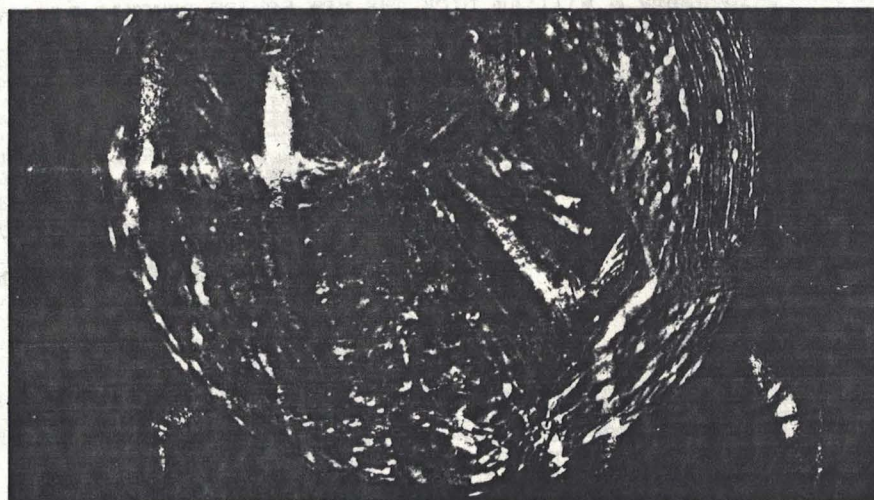
Uranus' strange moon Miranda may consist of a special form of ice that caused the moon's apparent volcanic and tectonic resurfacing. University of Arizona planetary physicist Steven Croft believes the ice formed as a direct result of the low temperature at which Miranda condensed from the solar nebula near Uranus. Croft presented the theory at the annual meeting of the Geological Society of America held in Phoenix last October.

The images of Miranda returned by the Voyager 2 spacecraft two years ago shocked planetary scientists. Only 300 miles across, Miranda should be a geologically dead, heavily cratered world, because it is too small to generate the internal heat needed to resurface its irregular terrain.

The Voyager images told a radically different story. Miranda does have craters, but overall the satellite's surface is a bizarre mixture of geologic features. The tiny moon is crossed by an enormous network of canyons, each typically 19 to 25 miles wide and 2 to 3 miles deep. Canyons in this network cross at nearly right angles to one another. A second system of canyons follows the curve of a 186-mile-diameter impact crater.



Cosmonaut Yuri Romanenko, back on Earth following a new record of 326 days in space, spoke to reporters on the wintry snow-covered Tungai Steppe.



MIRANDA VOYAGER PHOTOGRAPH

Space-
Flight
News
2/88

NASA/JPL photo.

Planetary scientists have proposed several theories to account for Miranda's unusual surface. Some believe Miranda once broke up in a collision with another object and later reaccreted. Croft argues that the probability of such a collision is low, however.

Others believe the canyons formed when Miranda expanded during a long period of internal heating. The Voyager images also show evidence of volcanism and tectonic activity — such as three depressions in the older cratered terrain that are filled with a stiff magma — both are signs of an internal source of heat.

Richard Greenberg and Robert Marcialis of the University of Arizona propose that the heat resulted from tidal forces caused by Miranda's tumbling motion. They theorize that Miranda originally orbited Uranus in an eccentric orbit. At some point a large irregularity — perhaps the 186-mile-diameter crater — formed on Miranda's surface and caused the satellite to tumble chaotically. The tumbling produced tidal stresses that heated the interior and also allowed Miranda's orbit

to decay to its present circular orbit.

Croft, on the other hand, believes the peculiar composition of Miranda's ices caused the satellite's interior to melt. At the extremely cold temperatures where Miranda formed, methane and water ice combine to produce a compound known as a clathrate, in which the crystal structure of the water ice traps methane inside. The compound is unusual because it is a very poor conductor of heat.

Croft says that if Miranda formed at a low enough temperature, it would consist of rock mixed with 50 to 60 percent of this methane clathrate and some ammonia-water ice. Because the methane clathrate conducts heat so poorly, the heat produced by radioactive decay would by itself raise Miranda's internal temperature to at least -143° Fahrenheit, the melting point of ammonia-water ice. The ammonia-water mixture would then flow as magma through fissures to the moon's surface. The magma-filled depressions revealed in Voyager images support this theory.

The Search for

ET.



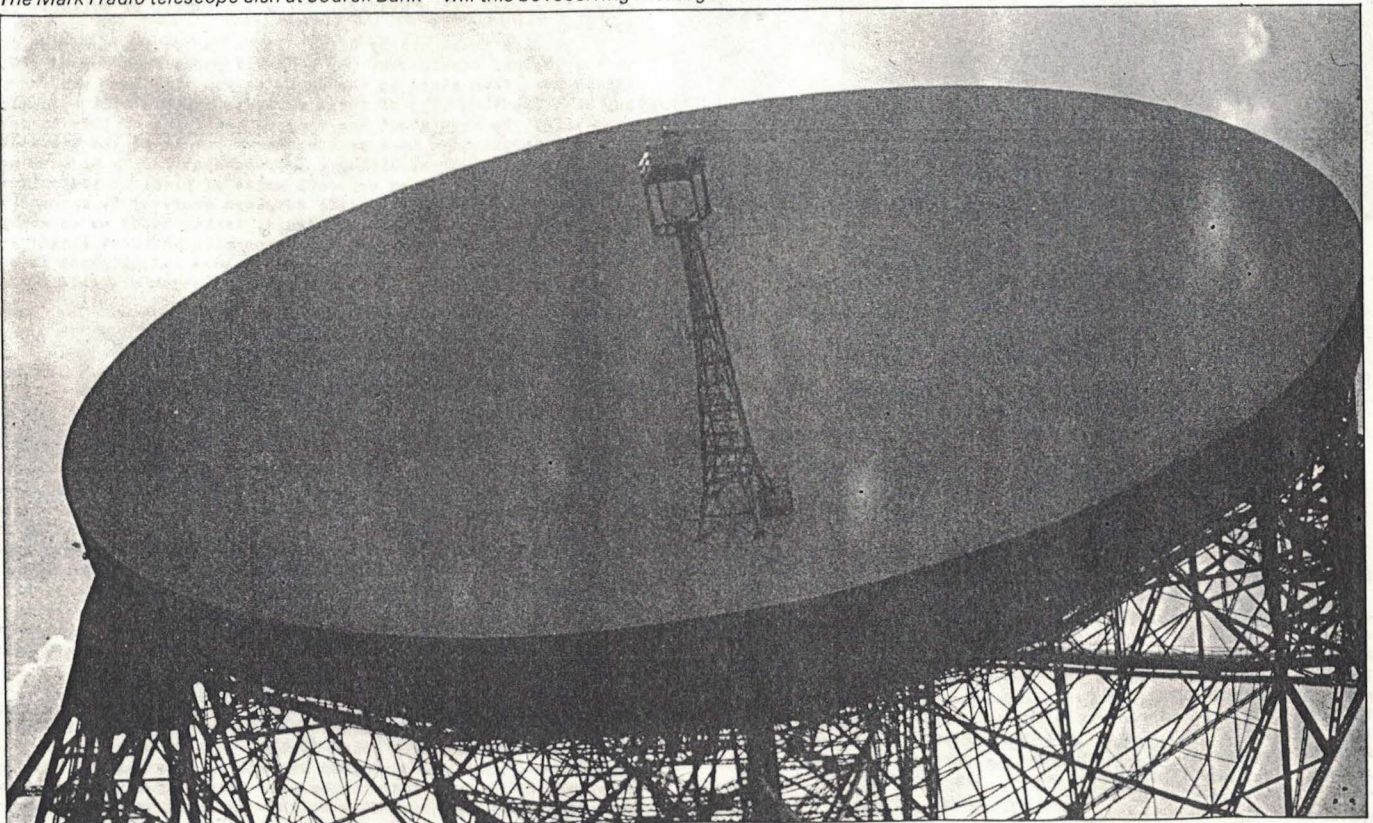
To reach out and touch the stars must be a dream almost as old as mankind itself. Even the most primitive of our ancestors doubtless viewed the night sky with a wonder and fear impossible to articulate. Hence the many legends concerning the sun and the moon which go back through countless generations to the dawn of recorded time. Through the centuries the stars have loomed large in our destiny; they are still with us today, goading us to new heights of endeavour.

Great thinkers and sterling men of science and learning like Copernicus, Kepler, Goddard and Von Braun braved all kinds of risks in their efforts to pull, push and generally cajole planet Earth and its population into uncharted theatres

of awareness. In 1957, the world was stunned from its post- WW2 stupor by the BEEP-BEEP-BEEP which dramatically ushered in our first artificial satellite. Brave new men the likes of Gagarin, Titov, Grissom and Glenn were the first heroes of the space age, following pioneers who were more oblivious to their significance and mission...doomed Laika and the rather more fortunate Ham.

1969. An era began. Another slowly faded. Despite what some ill-informed geriatrics will try to tell you, the nineteen-sixties were a celebration of the power of youth and water-holes of great innovation and creativity in all aspects of life. It is doubtful if a similar era will ever manifest itself in the remainder of my lifetime. I wouldn't have missed it for anything. But 1969 signalled the end of the

The Mark I radio telescope dish at Jodrell Bank – will this be receiving messages from an alien culture one day? Photo: Matt Irvine



sixties in more ways than one. Man had set foot on another world. That 'Giant leap for Mankind' compared with the incalculable size of the universe, was indeed just a small step. A toe testing the water. The truth is that the United States cut many corners to ensure that they would beat the Soviet Union to the moon. Even in the midst of the great changes the 1960's enriched our lives with, the 'cold war' between the most powerful nations on this Earth was still going on. As we slowly began noting the growing number of dead in far off Viet Nam, the race to the moon claimed a body count of its very own. Those with long memories will recall Edward White, Gus Grissom, Roger Chaffee and Vladimir Komarov. Their graves amounted to stepping stones to the moon, that dusty dark orb which has not seen human footprints since 1972.

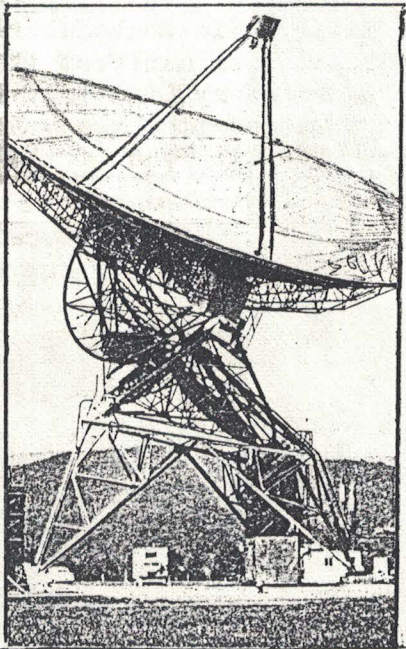
The romance of space travel is over. The 1986 Challenger disaster saw to that. Only in pulp Science-Fiction is space travel commonplace. The exploits of the cast of the 'Star Wars' trilogy only exist in the minds of script writers long on imagination, but woefully short on physics and other natural laws. At our present rate it will still be centuries before space travel resembles the world of Dan Dare. It is STILL a very dangerous business.

But there exists an alternative method of reaching out into space. Invasion via the Radio Telescope. Gone are the dangers to life and limb. No costly fuel required; no lives at risk in any way. The sophistication of radio astronomy is growing all the time. It is no longer a new born child. But even though it has come far since the early pioneering days, like nuclear reactors and their omnipresent dangers, it is still but a youngster...still learning...getting confused and at times unable to comprehend all the information it sends and receives.

With our present technology our most powerful radio telescopes possess a range of about one light year for Earth-type signals. Since the nearest star system is some four light years away, it would not be possible to detect an alien signal unless it was being broadcast with a far greater amount of power than anything we have on Earth, or unless the transmitter was placed in a space probe.

To conduct a thorough search for signals from E.T. Civilisations, it is necessary to detect two different sorts of signals. The first would be transmissions intended for domestic use - alien equivalents of TV and radio. The second type of signal would be those sent out deliberately with the sole purpose of contacting brethren in the inky wastes of outer space, wherever they might be. For this to be possible, it goes almost without saying that such a civilisation would have to be more advanced than present Earth technology.

To establish contact with us via messages from space, they would have to be translated and transmitted in a form that we could decode easily, so there would be little possibility of not fully comprehending the contents of the signal. The compilers of the signals would have to be the opposite of 'James Bond' ciphers; rather than being impossible to understand it must be impossible not to understand. It would be the most impossible message in the history of mankind, dwarfing our greatest achievements thus far.



The 85-foot Radio telescope at Green Bank, Virginia, used by pioneer Frank Drake to send the Project Ozma message. Although Drake was unsuccessful, it can only be a matter of time before a signal from Earth is acknowledged by a race from the stars. Will it happen in our lifetime? Stay tuned...

It was only as recently as the early 1960's that astronomers and scientists really began to publicly acknowledge the possibility of Extra-Terrestrial life with any fervour. UFO contactees such as George Adamski, with their stories of day-trips to Mars and Venus no doubt put many people off the topic for many years. Not Frank Drake; referred to as 'The father of SETI' (Search For Extra-Terrestrial Intelligence). Drake's simple yet far reaching brain-child was Project Ozma, instigated by Drake at Cornell University. Stimulated by an article by fellow renaissance man Philip Morrison, published in the journal NATURE in 1959, Drake took the advice of using one of the commonest frequencies in the universe...Hydrogen line. Hydrogen is abundant everywhere in the universe, so the plan was to choose a frequency close to that of the hydrogen atom, about 1400MHz, or megacycles.

Drake and his Ozma team listened for some eight weeks with a modest radio telescope situated at Green Bank, West Virginia, with a simple data-processing system to Tau Ceti and Epsilon Eridani - two stars close (in astronomical terms) to our sun. His chance, as he realised, to actually detect ET signals with the primitive set up was rather remote.

The integrating system was not terribly powerful; his receiving dish was far from ideal and of course, he only had eight weeks. But it was useful in minor ways; Drake realised a lot of the problems SETI faced: the extreme difficulty in distinguishing real signals from interference; the existence of large amounts of radio pollution - including signals from some very reluctant to announce their sources. The cold war looms again.

Since Ozma, over twenty similar searches have been carried out by various teams all over the world, including the Soviet Union. Each group uses a slightly different techniques, listening to a range of selected stars. No success - yet. Considering the size of the Universe and the capability of our technology, it may take another two hundred years. Then again, it might happen in between the time I am writing thus and when you get to read it!!!

To attempt even a very rough 'guess-timate' of how long we will have to wait until we pick up the long awaited E.T. signal we would have to know, or rather guess, just how many alien civilisations there are in the universe that we are still getting to know. Various attempts have been made to estimate the frequency of E.T. civilisations; one of the first serious attempts was the one devised by Ozma pioneer Frank Drake. His contribution was the renowned expression!

$$N = R \times f_p \times N_e \times f_l \times f_i \times f_c \times L$$

The Drake equation is simply a mathematical way of putting a common sense approach down on paper. N is the number of civilisations in the galaxy able to communicate over the forbidding distances involved. The equation tells us that N equals the rate of star formation, multiplied by the fraction of those stars with planets and the number of Earth-type planets in each solar system. This number is then multiplied by the fraction of those planets on which life develops and the fraction of planets on which a communicating technology develops. The final segment of Drake's formula L, signifies the lifetime of each communicating community in years. By making educated estimates concerning reach of these very important factors, a reasonable (though far from accurate) idea of N can be found. Once the number of emergent societies in our galaxy is known, it is a relatively straight-forward matter to calculate just how far away our nearest cousins across the vastness of space is likely to be.

Of the vital factors, R, rate of star formation is fairly well known. Some ten stars form each year from clouds of interstellar gases and other interplanetary bric-a-brac, the easily identified Orion Nebula is one example. R then has a value of ten. The percentage of these stars which contain planets (Factor f_p). Although our knowledge concerning the existence of planets beyond the orbit of tiny, cold Pluto, doesn't amount to much, studies of star formations suggest that planets are formed frequently, especially in cases of single stars, such as our Sol. Many stars exist as binary (or double) stars, where conditions may not prove as favourable to planets...one star in ten possessing worlds is a reluctant estimation. Just how many of these planets in each of these solar systems will be suitable for life to finally develop? In our solar system, there is just one planet, our Earth, which is capable of supporting life. Mars, along with Venus may have been able to support life sometime in the deep shady recesses of their past. At the very least, at one time or another two planets could have held life possibilities. However one planet per solar system is as close to a reasonable average, for N the number of suitable planets per star.

It becomes increasingly difficult to follow the equation through to its logical conclusion. Our educated guess from now on could be little more than stabs in the dark. As you will see. Who can possibly say what fraction (f_l) of these suitable planets will actually develop life? We know about the many varied forms of life on our fair orb, but is this due to a remote chance, or is it the inevitable happenstance of normal biological processes? Really we have no reason to believe Earth has any especial pride of place in the universe. We may accept and assume that life develops wherever it can and equate this factor (f_l) equal to one. Again, taking Earth as an example, it is commonly believed that intelligence will manifest almost everywhere that life evolves. This seems to be because intelligence is a prerequisite to survival...creatures which think are able to contend

which their environment. But remember the Dinosaurs? They were the dominant form of life on this planet not so long ago (in astronomical terms) and yet they had brains similar in stature to peas. Which proves that life that evolves may not be intelligent. Scientists attribute 10% of planets to have hosted intelligent life.

Even more difficult to contemplate is the question of how many intelligent species will actually develop civilisations, technology and a desire to explore. On Earth we can no longer imagine (nor tolerate, I suspect) life without technology; tools of some form or another have existed since the dawn of man - from stone-age clubs through to present day's computers and lasers. Yet the development of tools to simplify the rigours of life does not have to be a constant as far as life is concerned. Virtually everyone agrees nowadays that the intelligence of whales and dolphins is undeniable, and that they communicate with one another, yet by virtue of their environment and pedal extremities, nobody will ever expect a dolphin to build a TV set or a wristwatch. Again, the common decision is to choose 10% for f_c - the percentage of space-races which are able to devise a system of interstellar communication.

The above educated guesses are hard enough, but the final expression is the hardest yet: L is the lifetime of each potential society. This is firmly based on developments here on Earth. Our capabilities for sending signals out into space appeared side-by-side our far less worthy ability to annihilate ourselves via nuclear devices. We have survived since the first two atomic bombs were dropped in 1945; which suggests that other civilisations at a minimum can stand over 40 years without

THE SEARCH FOR E.T.

terminating their existence. How long can a planet survive after creating something which can assure such evil destruction? Astronomers will tell you that the Earth can expect to go on much the way it does right now for another five million years...until our sun enters the red giant phase. Thus, bearing in mind just how much humanity may change in the interim, in all aspects of its fibre of being, one million years seems an arbitrary and perhaps less-than-generous suggestion. So, putting our numbers into the Drake equation we find:

$$N = 10 \times 0.1 \times 1 \times 10^0 \times 1 \times 0.1 \times L \text{ or: } N = 0.1 \times L$$

Should we decide 40 years to be the average lifetime of any technological lifeform, N works out at 0.4. which means very few other civilisations. We may even be the first or last concentration of life in the galaxy. Either way, it's a depressing thought. But (ah!) should we play with the notion that any civilisation can hold off blowing themselves up for close on one million years, it stands to reason that there is a vast array of life throughout the galaxy, perhaps in excess of 10,000 potential races of beings. Some arguments would place the nearest E.T. civilisations within ten light years, but until we develop a little further ourselves we have no way of knowing just how optimistic this figure may prove to be.

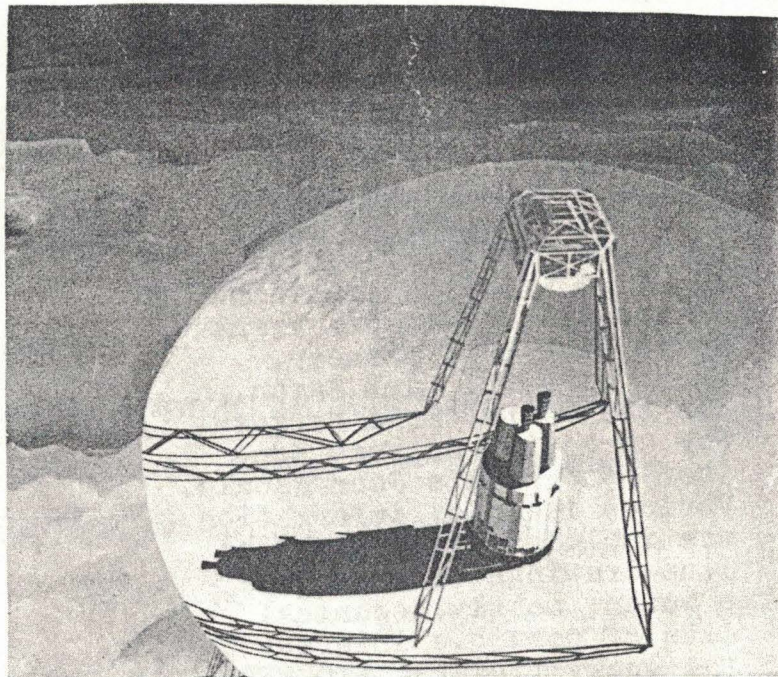
Based on scientific findings over the last brace of decades, we still lack proof that any hypothetical E.T. civilisations exist, only a very strong suspicion. It would be a total surprise, not to mention terribly disappointing to find we are alone in this huge galaxy in an even larger universe. In searching for evidence of life in outer space what kinds of evidence should we be looking for? Radio signals? Alien space probes drifting towards us even as Pioneer & Voyager head towards them? Races much more scientifically developed than Man may have discarded radio long ago, succeeding it with a means of communication far beyond our comprehension.

The eventual discovery of neighbours somewhere in the cosmos will prove to be the most significant moment in the history of the human race. Some of the consequences will be apparent from the first instant; others may manifest themselves over a period of perhaps decades. One cannot help but ponder over how much more or less xenophobic we become... far as other concerns go, communication with an Extraterrestrial race will revolutionise a wide range of scientific fields, including astronomy, biology, sociology, and medicine. The final realisation that we are not alone and dwell in a populated universe with other beings more technically advanced than ourselves could have other beneficial results. Quite possibly humanity would cast aside their petty squabbles in an attempt to unite together to greet real-life 'space-brothers'. In return, we may find ourselves finally able to build spacecraft capable of a range and velocity which as yet we can only dream of. Possibly, should our first meeting be a mutual first contact, the human race and our new allies would search together seeking out new forms of life. Very much in the 'boldly go where no man has gone before' ethics of STAR TREK. What an adventure that would turn out to

But there is another side of this coin...what if the alien race in question wishes to exploit us, as happened to the American Indians or the African blacks? Even more crushing - what if indeed they have been making a detailed study of us for many years, as some ufologists claim and in their infinite wisdom, they decide Earth should be a quarantined world, where greed and madness reign supreme and suffering is observed with callous indifference? The optimist struggling to get out hopes that it will not come to that; surely any advanced people's out there in the infinite reaches of space have gone beyond such evil and meanness and will embrace us as one would a misguided but inherently innocent child.

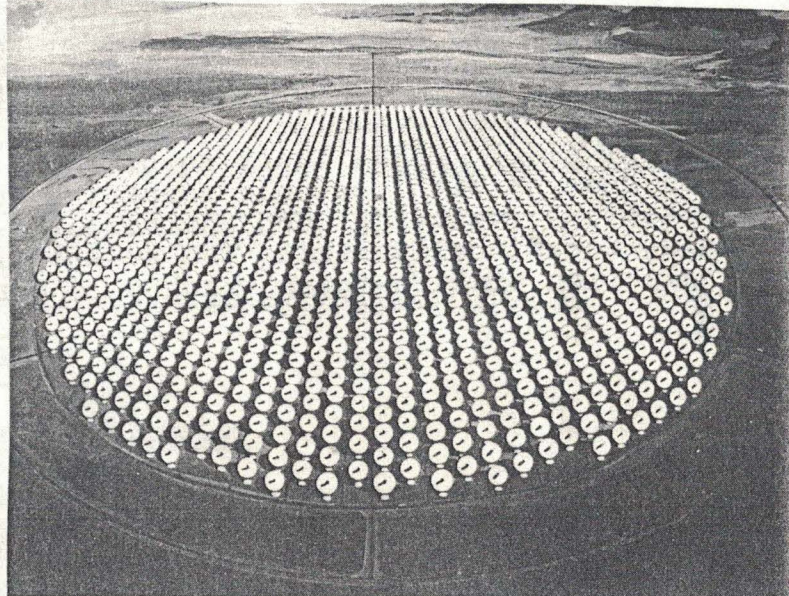
If the space phone DOES ring, do YOU think THEY ought to answer it?

DAVID PROCKTER
March - April 1988



In the summer of 1971, a group of American scientists and engineers met for a six-week study to assess what would be required to discover Extraterrestrial life outside the solar system. PROJECT CYCLOPS was sponsored by NASA and the American Society For Engineering Education and was carried out by a team of university specialists working under the joint direction of NASA's Ames Research Centre and Stanford University. The plan was to establish a series of huge radio telescopes - starting with one (ABOVE) and eventually ending up with many more - in what is known as a 'phased array'. (BELOW)

PHOTOS: NASA



ASTRONOMY NEWS

Via Stanley Greenwood
From the Hartlepool Mail
3/2/1988

Perfection written in the stars

DON'T expect to be still hanging around when it happens again!

The extraordinary alignment of planetary forces which start on February 14 - St. Valentine's Day - and continues until Leap Year Day - February 29 - won't happen again for another 114,000,000 years!!!

According to the leading astrological team of Peter and Lisha Simester, this unusual conjunction means that a rare, triple alignment of Mars, Saturn and Uranus will occur - exactly on the recently discovered axis which is believed to lead directly to the centre of our own galaxy - between February 20 and 23.

While all this is happening Jupiter and the

Earth will each be a third of a circle removed from each other so that, between February 14 and 29, the four closest outer planets will make what is known as a Triple Grand Trine, with the Earth itself at the third point in what the Simesters say is "the most perfect and rare combination of all planetary aspects".

The Simesters urge us to make the most of those two weeks.

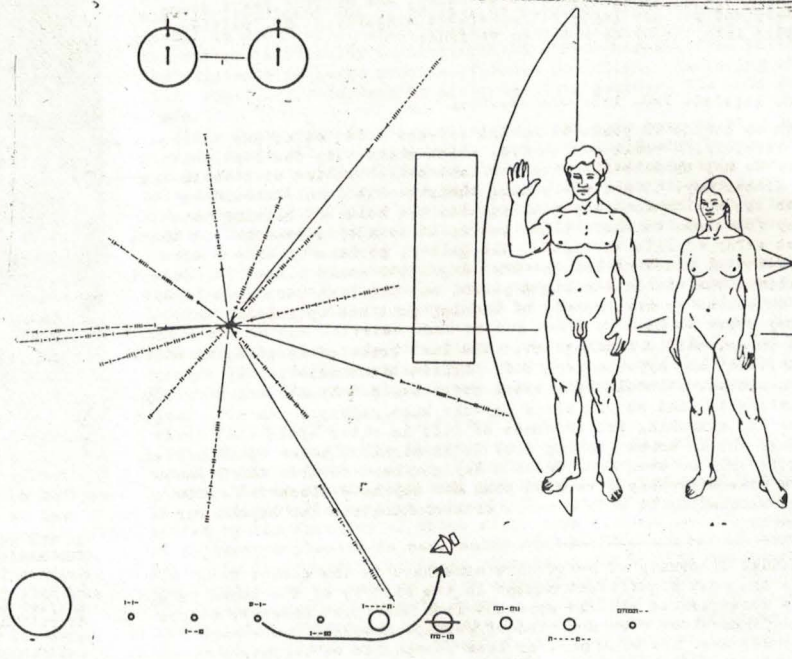
For we Earthlings will be part of an incredible complex interplanetary manoeuvre which heralds a time of "change, challenge and unexpected upheavals on the world stage".

Just think, there will be only 114 million years to go before the perfect happening occurs again!

WISH YOU WERE HERE DEPT:

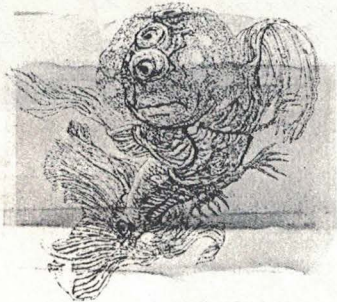
What amounts to a postcard in space is affixed to the first Earth-launched probe to leave our solar system. Involved with the creation of the plaque was Dr. Frank Drake, our E.T. pioneer, along with Dr. Carl Sagan, his then-wife, Eric Burgess (of Christian Science Monitor) and NASA's John Naugle. Various items of information are included along with the line-drawings of a man and a woman; mostly technical data of possible interest to the lucky finders. PIONEER, in the course of its lifetime, will travel over 18,000 trillion miles - the journey to who knows where will take 100 million years.

NASA Craft Bears Message For Aliens



The aluminum plaque depicts man in scale with a drawing of the Pioneer spacecraft, the path of the spacecraft, Earth's solar system, the alignment of the nine planets, schematic of two states of atomic hydrogen and a pulsar map depicting the 14 pulsars in the Milky Way galaxy. These symbols, according to astronomer Carl Sagan, are the ideal way to specify where the spacecraft is from and when it was launched.

QUAINT ALIENS DEPT: Every so often, a team of scientists will get together and come up with possible scenarios for alien worlds - and the weird beings which may evolve in such environments. This has been going on for some time now, occasionally making the newspapers. These (BELOW) are just a random selection of life-forms which were considered at one time or another.



STRANGE LIFE ON DISTANT WORLDS

The prospect of finding life on planets inhospitable to man has started some scientists on fanciful hypothesizing. Starting with conditions thought possible in remote solar systems, they have imagined adaptations life might make, and then have conjured up beings to fit the adaptations. The fish-like being above would live on a water-covered planet.



TALL BIPED ON A SMALL PLANET

Small planets would possess a light gravity that could not retain much atmosphere. The being on such a planet, according to an artist's conception, might have large nostrils and a huge chest cavity to help him to breathe the thin air. The gravity would not inhibit growth or speed, so the being would be tall and would travel in long, easy strides.



LOW LIFE ON A HUGE WORLD

The massive gravity created by a giant planet might produce the imaginary squat creature on the right, creeping sluggishly over the eroded landscape. The constant chafing of the corrosive atmosphere would require it to develop a thick skin as protection.

'AUROMA' SCENTED INCENSE

SUPERIOR QUALITY handmade incense

=====
made from rich and exotic perfumes. Approx. 38 sticks per pack
only £1. inc. P&P. Please make cheques or postal orders payable to
B.G. Smith and send to Auroma, 58 Newton Green, Great Dunmow,
Essex.

The Inglenook

Firegrates
Firebaskets
Cast-iron Firebacks
Living Flame Gas Coal/Log
Fires by Fire Tech
Fireside Accessories
Ornamental Ironwork

David Walls

Member of Guild of Essex Craftsmen

8b, Stortford Road,
Great Dunmow,
Essex.

Telephone: Great Dunmow,
(0371) 4999 or 2900

LAWN MOWER AND GARDEN MACHINERY REPAIRS

'Les Clements'

CAN UNDERTAKE ALL WORK

Tel: Great Dunmow
(0371) 4560

WANTED. A3 size PHOTOCOPIER. Good
quality reproduction needed similar
to this magazine. Secondhand may
be considered in good reliable
working order; recent model dry
copier. Telephone: (0371) 4689
with price required.

ALL ADS. ON THIS PAGE WERE DONATED
BY WELL-WISHERS, TOWARDS THE PRO-
DUCTION COSTS OF THIS MAGAZINE. You
may write for details. Address is on
page 24.

FORESIGHT

MAGAZINE of Love, spiritual awareness
and some articles similar to this magazine.
From John & Judy Barklam: 44, Brockhurst
Road, Hodge Hill, Birmingham, B36 8JB,
England. 30p Each plus 13p post? (£1. over-
seas) or yearly subscription of £1.20 plus
50p Post. Telephone: 021-783-0587


TELESCOPE FOR SALE

FULLERSCOPE

6 $\frac{1}{2}$ inch Reflector

12, 25, 6mm Eyepieces complete with
Barlow Lens, Setting circles, Motor drive
in the Right Ascension. Camera Bracket,
and other accessories. For more details
telephone Braintree 27112: (Essex)
£750 complete or near offer. (Leigh Billett)
after 7.00pm (1900hrs)

METTA - THE WORLD MISSION
P.O. Box 49, Salatiga 50701, Central Java,
I N D O N E S I A
Journal full of good advice and related
spiritual nature. Fully in English, with
world wide contributors. ADS for others
of like mind, and Indonesia spiritual
news. From METTA. No cheques. Subscrip-
tion per year: \$10 US Dollars. AIRMAIL.
Or write for details to above address.



The Antarctic stratosphere
loses half its ozone every September. An equally
sharp decline above New York
would make sunbathing a death-defying act.

NEXT ISSUE: DENIZENS OF THE DEEP...
Sea Monsters and things that lurk
in Lochs...UFO'S IN PERSPECTIVE...
International sighting catalogue



World copyright reserved

Cosmology Newslink International is published as a non-profit magazine
for information exchange at: 16, NEWTON GREEN, GREAT DUNMOW, ESSEX,

CM6 1DU

PRINTED IN ENGLAND